

CALIFORNIA INSTITUTE OF TECHNOLOGY

EARTHQUAKE ENGINEERING RESEARCH LABORATORY

ANALYSES OF STRONG MOTION EARTHQUAKE ACCELEROGRAMS

VOLUME IV - FOURIER AMPLITUDE SPECTRA

PARTS N, O, AND P

ACCELEROGRAMS Π N185 TO Π N197, Π O198 TO Π O201,
 Π O204 TO Π O208, Π O210, Π O213, Π P214 TO Π P223,
 Π P231 AND Π P232

REPORT NO. EERL 74-103

A REPORT ON RESEARCH CONDUCTED UNDER A
GRANT FROM THE NATIONAL SCIENCE FOUNDATION

PASADENA, CALIFORNIA

JUNE 1974

CALIFORNIA INSTITUTE OF TECHNOLOGY
EARTHQUAKE ENGINEERING RESEARCH LABORATORY

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Volume IV - Fourier Amplitude Spectra

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Accelerograms IIN185 to IIN197, IIO198 to IIO201,
IIO204 to IIO208, IIO210, IIO213, IIP214 to IIP223,
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ABSTRACT

This is one of a series of reports presenting Fourier amplitude spectra for earthquake ground motions and for structural response accelerations. Volume IV, Part A, Report No. EERL 72-100, included an introduction summarizing Fourier spectrum techniques in earthquake engineering as a background to the use of the data. For each earthquake accelerogram, two spectrum plots are given - a Fourier amplitude spectrum versus frequency on a linear scale and a log-spectrum, log-frequency plot. In this Volume IV series, Fourier amplitude spectra will be given for all corrected accelerograms, including building response measurements. The corrected records analyzed in this report, Volume IV, Parts N, O, and P, appeared in Volume II, Part N, Report No. EERL 74-54, and Volume II, Parts O and P, Report No. EERL 74-55. Their uncorrected versions were published in Volume I, Part N, Report No. EERL 72-27; Volume I, Part O, Report No. EERL 73-20; and Volume I, Part P, Report No. EERL 73-21.

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PREFACE TO VOLUME IV, PARTS N, O, and P

This report, Volume IV, Parts N, O, and P,* Report No. EERL 74-103, is part of the Volume IV series presenting Fourier spectrum curves calculated from corrected strong-motion accelerograms including measurements in structures as well as at ground sites. We continue here with records from the San Fernando, California, earthquake of February 9, 1971. The analysis of records from this earthquake appeared first in Volume IV, Part C, Report No. EERL 73-101, and this report presents the spectra from the following locations:

1. N185. Carbon Canyon Dam, La Brea
2. N186. Whittier Narrows Dam, Whittier
3. N187. San Antonio Dam, Upland
4. N188-190. 1880 Century Park East, Los Angeles (3 records)
5. N191. 2516 Via Tejon, Palos Verdes Estates
6. N192-194. 2500 Wilshire Boulevard, Los Angeles (3 records)
7. N195. San Juan Capistrano
8. N196. Long Beach State College, Long Beach
9. N197. Anza Post Office, Anza
10. O198. Griffith Park Observatory (Moon Room), Los Angeles
11. O199-201. 1625 Olympic Boulevard, Los Angeles (3 records)
12. O204. Utilities Building, 215 W. Broadway, Long Beach
13. O205. Terminal Island, Long Beach
14. O206. Hall of Records, San Bernardino
15. O207. Fairmont Reservoir, Fairmont
16. O208. University of California, Santa Barbara
17. O210. Fire Station (Hose Storage Room), Hemet
18. O213. Hoover Dam (1215 Gallery)
19. P214-216. 4867 Sunset Boulevard, Los Angeles (3 records)
20. P217-219. 3345 Wilshire Boulevard, Los Angeles (3 records)
21. P220. 666 W. 19th Street, Costa Mesa
22. P221. Santa Anita Reservoir, Arcadia
23. P222. Navy Laboratory, Port Hueneme

*For reasons of economy and convenience in the size of the reports, it has been thought desirable to combine three parts into one report.

- 24. P223. Puddingstone Reservoir, San Dimas
- 25. P231-232. 9841 Airport Boulevard, Los Angeles (2 records)

The uncorrected versions of these records appeared in Volume I, Parts N, O, and P, Report Nos. EERL 72-27, 73-20, and 73-21, and the plotted corrected accelerations, velocities, and displacements were included in Volume II, Part N, Report No. EERL 74-54, and Volume II, Parts O and P, Report No. EERL 74-55. These Volume II corrections included a long period cut-off of 8 seconds for all the 70-mm and 35-mm film records in this issue instead of the standard cut-off period of approximately 15 seconds. This included the records with the following Caltech reference numbers:

Part N: N185 to N197
Part O: O198 to O201, O206, O208, O210
Part P: P231, P232

The results published here reflect this altered low-frequency limit most clearly in the log-log plots where the Fourier amplitude spectrum in general commences falling off at a frequency of $f = 0.125$ cps ($\log f = -0.90$) instead of at $f = 0.07$ cps ($\log f = -1.15$).

A number of very low amplitude accelerograms have been eliminated from the processing of Volume II and on, reflecting the expectation that the resulting displacements would be dominated by noise. Included in this group of accelerograms, and therefore eliminated from this issue, are the following:

Part O: O202, O203, O209, O211, O212
Part P: P224 to P230.

Record P218 from the second floor at 3345 Wilshire Boulevard, Los Angeles, consists of only the two horizontal components, as described in Volume I, Part P, Report No. EERL 73-21. The electrical damping system of the vertical component transducer was not in operation and the transducer was therefore responding as a lightly damped oscillator. Copies of the original record are available to investigators having a special interest in the data from this station.

NOTES ON THE VOLUME IV SERIES

Description of the Four Volumes of the Project. The series of reports in Volume I present "uncorrected" digitized and plotted strong-motion earthquake accelerograph data, while the series in Volume II present corrected digitized data prepared so that the maximum information over the widest practicable frequency range would be available. The corrections include long period filtering ensuring to the greatest extent possible a uniform type of baseline adjustment and an instrument correction to account for the high frequency response characteristics of the accelerograph transducer.

The Volume III series presents earthquake response spectrum curves calculated from the corrected accelerograms of Volume II, while the Volume IV series contains Fourier amplitude spectra calculated by the Fast Fourier Transform algorithm. An extensive introduction was prepared for Volume IV, Part A, Report No. EERL 72-100, where details of the methods used can be found together with examples of applications to various problems of earthquake engineering and strong-motion seismology. That introduction should also serve as a basic summary of background information for users of the data.

Contents of the Various Parts. The specific records whose "uncorrected" digitized versions appeared in Part A of Volume I are included subsequently with their analyses in Part A of Volume II, III, and IV. This arrangement has been maintained throughout the whole series. In Part C of Volume IV, Report No. EERL 73-101, we began the presentation of Fourier spectra analysis for the unusually important series of accelerograms obtained during the San Fernando

earthquake of February 9, 1971. These are expected to be concluded with Part S. The reports following Part S will continue with the original selection of approximately one hundred strong-motion records whose presentation started in Parts A and B.

Component Directions. A description of the component direction nomenclature for the records was given in Volume II, Part B, Report No. EERL 72-50. Consistent with this, the component direction where it appears in this report refers to the direction of the transducer pendulum motion for the trace to be deflected "up" on the record when viewed in the normal way with time increasing from left to right. The direction of true ground acceleration is opposite to this pendulum motion. The spectral calculations of Volume IV, however, are concerned with the amplitude spectrum only and the particular component sense is thus immaterial.

Assessment of Long Period Errors. A separate section in Volume II, Part G, Report No. EERL 73-52, entitled "Current Assessment of Long Period Errors" describes the results of a recent investigation of long period displacements calculated from recorded accelerations. During the course of this study it became evident that the procedures for preparation of 70-mm and, to a lesser extent, 35-mm film records from the San Fernando earthquake of February 9, 1971, introduced spurious excitations at periods close to the duration of the sectional enlargements. These effects have been removed from all of the 70- and 35-mm film records by filtering with a long period limit of 8 seconds rather than the standard cut-off period of 16 seconds in the Volume II correction procedure. The following list of

Caltech reference numbers indicates the records from the San Fernando earthquake included in Volume I, Parts C through S, that have been processed with the cut-off period of 8 seconds:

Parts G, H, I, K, N, Q, R, S: All records in these parts.

Part J: Records J142 and J145 through J150.

Part L: Records L166, L167, L168; L172 through L175.

Part M: Records M176, M177, M178; M180 through M184.

Part O: Records O198 through O201; O206, O208, O210.

Part P: Records P231 and P232.

A decision was also made at the same time to eliminate a number of very low amplitude accelerograms from further processing (Volume II and on) reflecting the expectation that the resulting displacement records will be dominated by noise. Their Caltech reference numbers are as follows:

H127; I140; J151, J152; K153 through K156, K161 through K165; O202, O203, O209, O211, O212; P224 through P230.

Description of the Figures and Tables. For each component in the following pages the Fourier amplitude spectrum is presented in two forms - a linear plot and a log-log plot. Details concerning identification are given at the top of each plot. The second line gives the name, date, and time of occurrence of the earthquake; the third line is comprised of two labels, the observation station and the component processed. The Roman numeral "IV" in the first identification

label indicates that the results pertain to the fourth stage of data processing, i.e., Volume IV of Fourier spectra of accelerogram records already corrected for baseline adjustment and instrument response. The letter following the Roman numerals indicates the part of Volume II to which the processed record belongs. The three-digit number completing the first label is the Caltech Reference Number for the given earthquake record in Volume I, right-adjusted in a three-digit numerical field. The second label is a string of three numbers separated by periods; the first number gives the year in which the earthquake occurred; the second is the serial number of the record as it was received at the Caltech Earthquake Engineering Research Laboratory during that year; and the last number indicates whether it was a main event or an aftershock (sequentially numbered, the main event starting from zero). On the linear spectrum plot, the data lying above the 95 percent confidence level may be considered relevant to that degree. The spectra have been plotted up to a frequency of 25 cyc/sec on linear and logarithmic scales, corresponding to the capabilities of the instrumentation and data processing methods used.

Frequency Transfer Functions. This report presents many spectra of accelerograms recorded simultaneously at different locations in the same structure, for example, the basement, mid-height, and roof levels of a tall building. At present it is planned to calculate frequency transfer functions involving smoothing and calculating the ratio of two such spectra in supplementary reports.

Acknowledgments. The cooperative efforts of many people are essential in the preparation of a series of reports of this kind and we have been fortunate in the quality of staff that has carried out the various details with special care and attention. We should like to express our appreciation to Mr. Vincent Lee for this assistance with many details of computer programming, to Miss Barbara Turner and Miss Sharon Vedrode for the care taken over typing and editing, to the staff of the Willis H. Booth Computing Center for their continued help with all aspects of the computing process, and to the staff of the Caltech Graphic Arts Facilities for very efficient work on publication details. The whole project has been made possible by the continued support of the National Science Foundation, supplemented in an important way by contributions from the Earthquake Research Affiliates Program of the California Institute of Technology.

M. D. Trifunac
A. G. Brady
D. E. Hudson
Earthquake Engineering Research Laboratory
California Institute of Technology

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EARTHQUAKE DATA

The San Fernando, California, Earthquake of February 9, 1971,
0600 PST; epicenter, $34^{\circ}24.7'N$, $118^{\circ}24.0'W$; * maximum intensity, XI;
revised magnitude (M_L), 6.4; depth, 13.0 km.

* Latest revised epicenter location.

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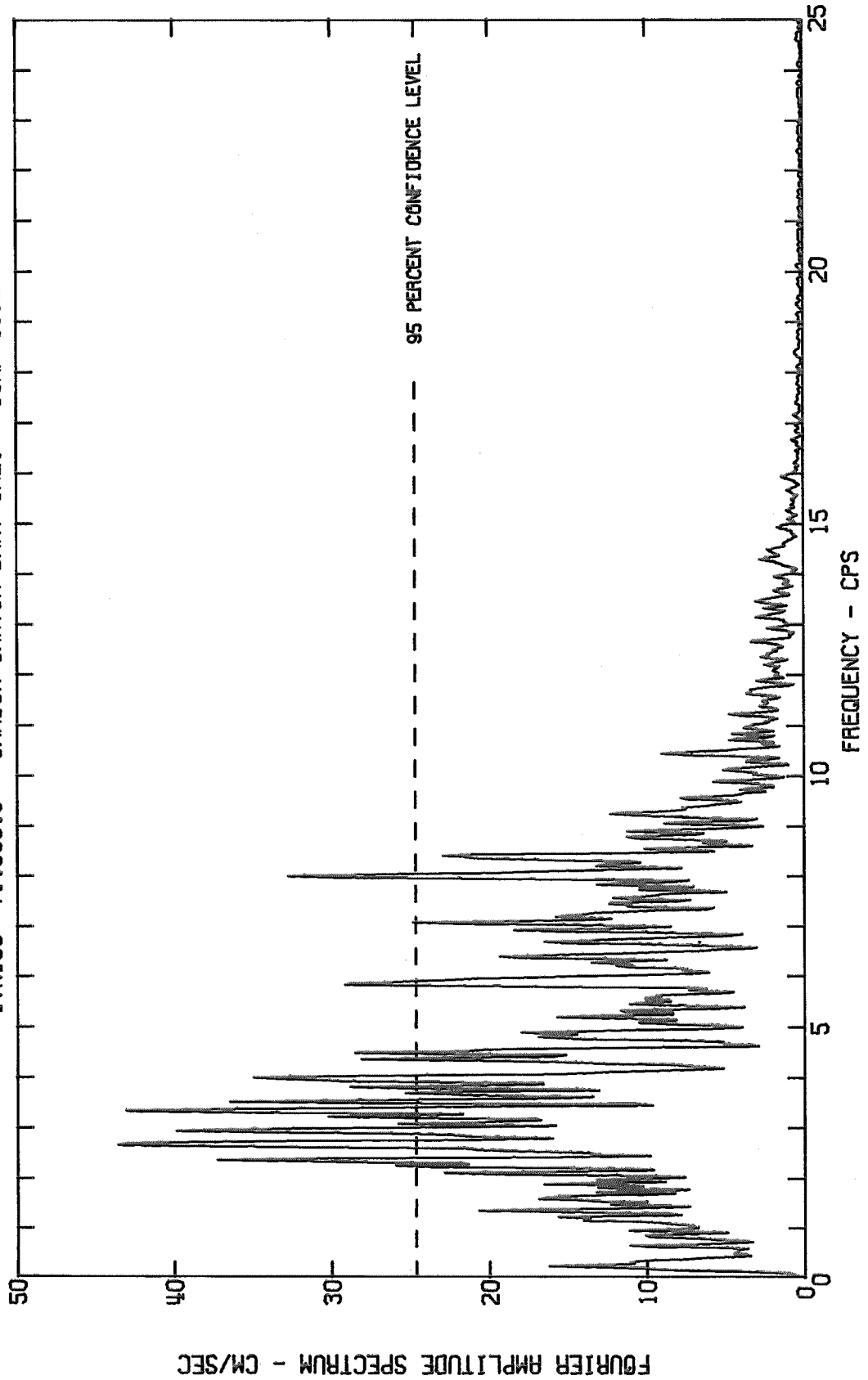
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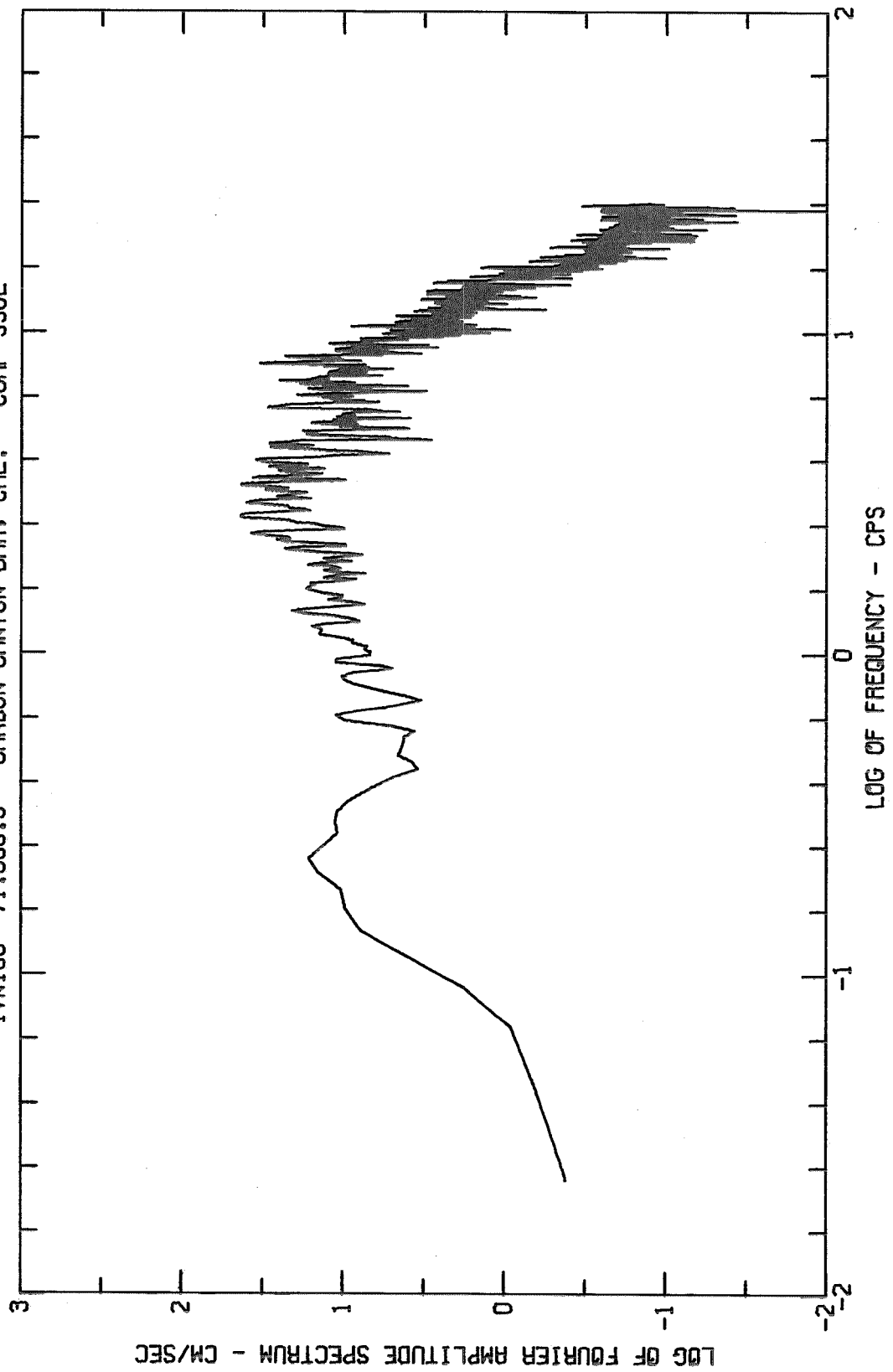
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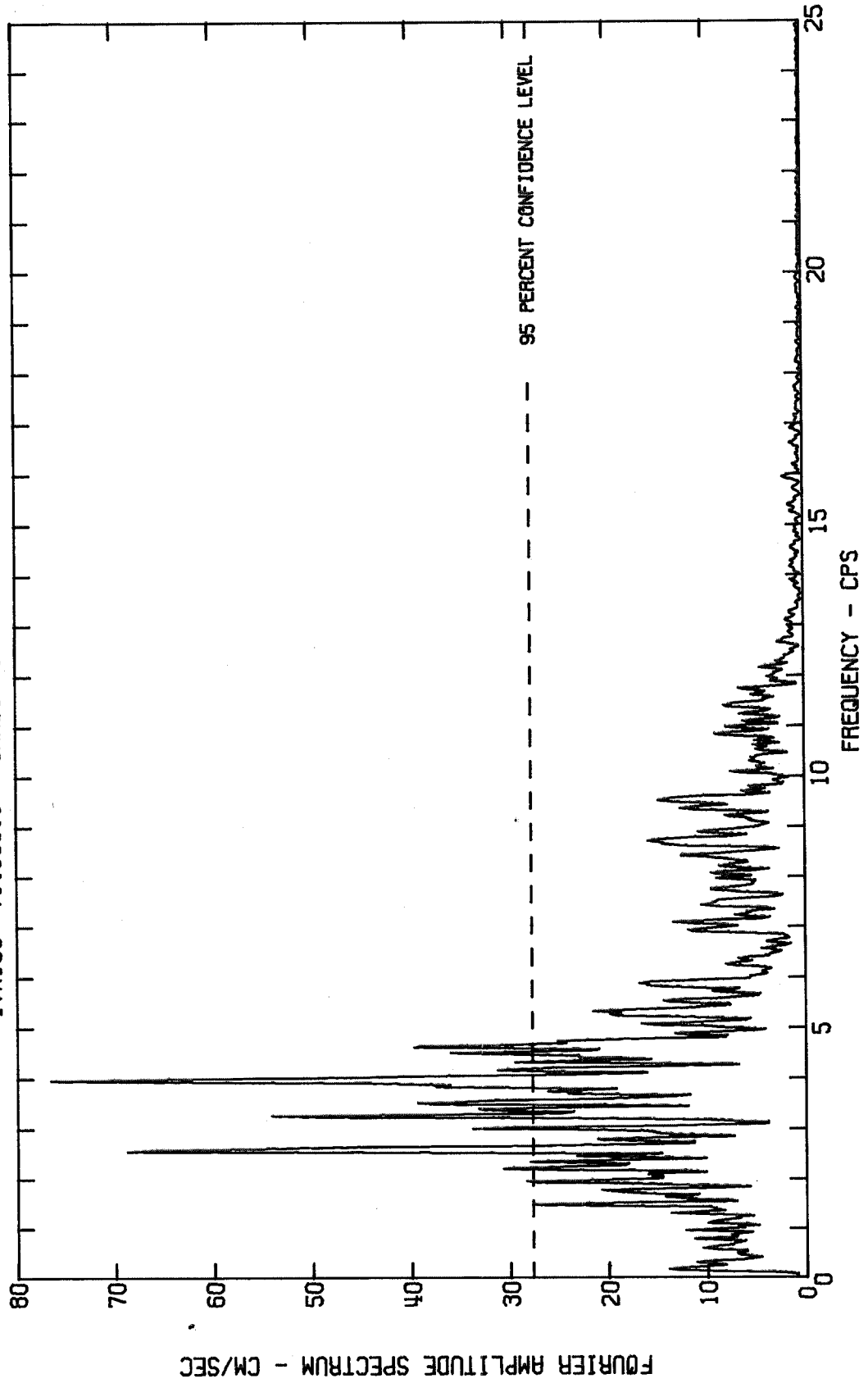
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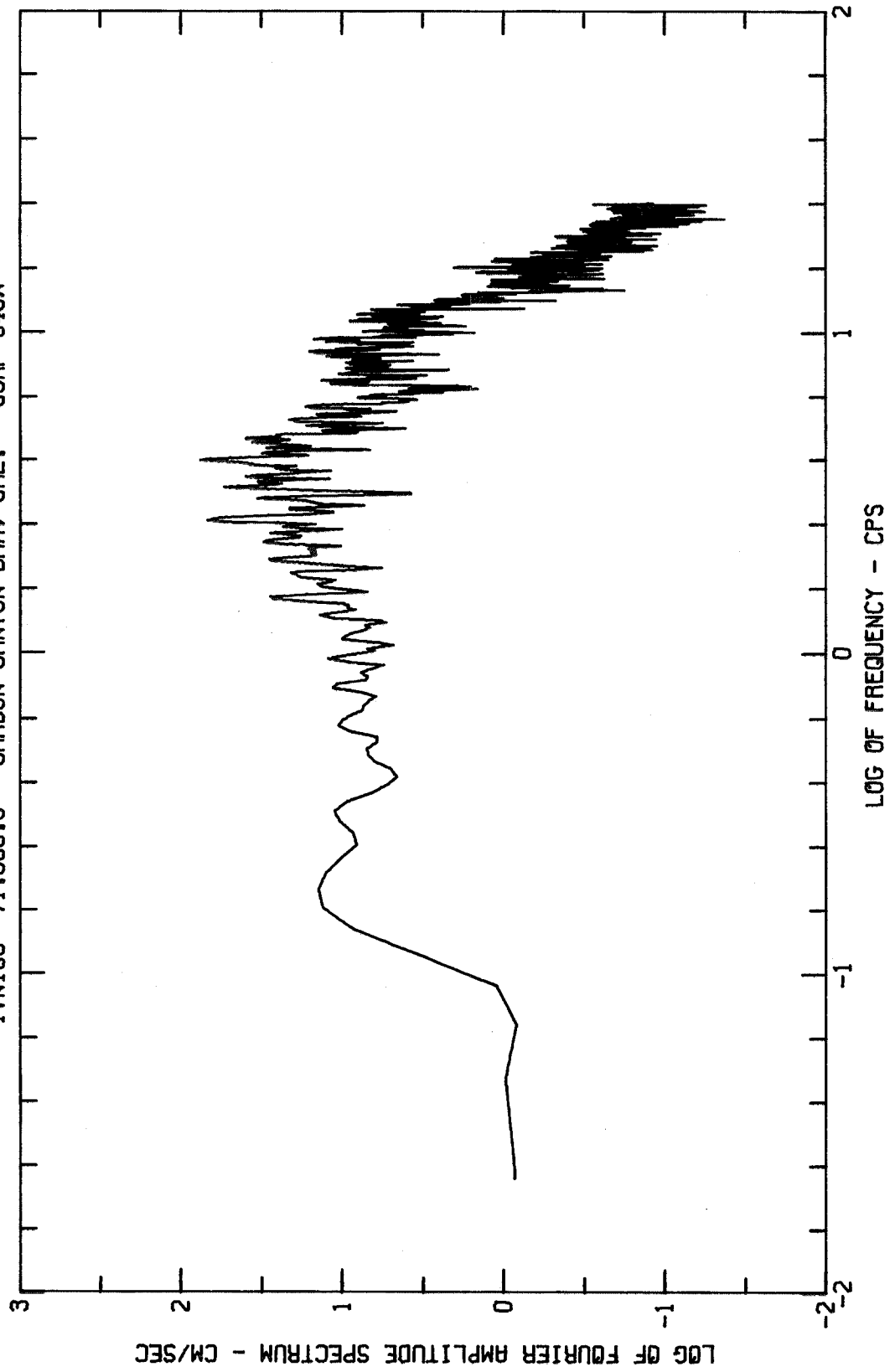
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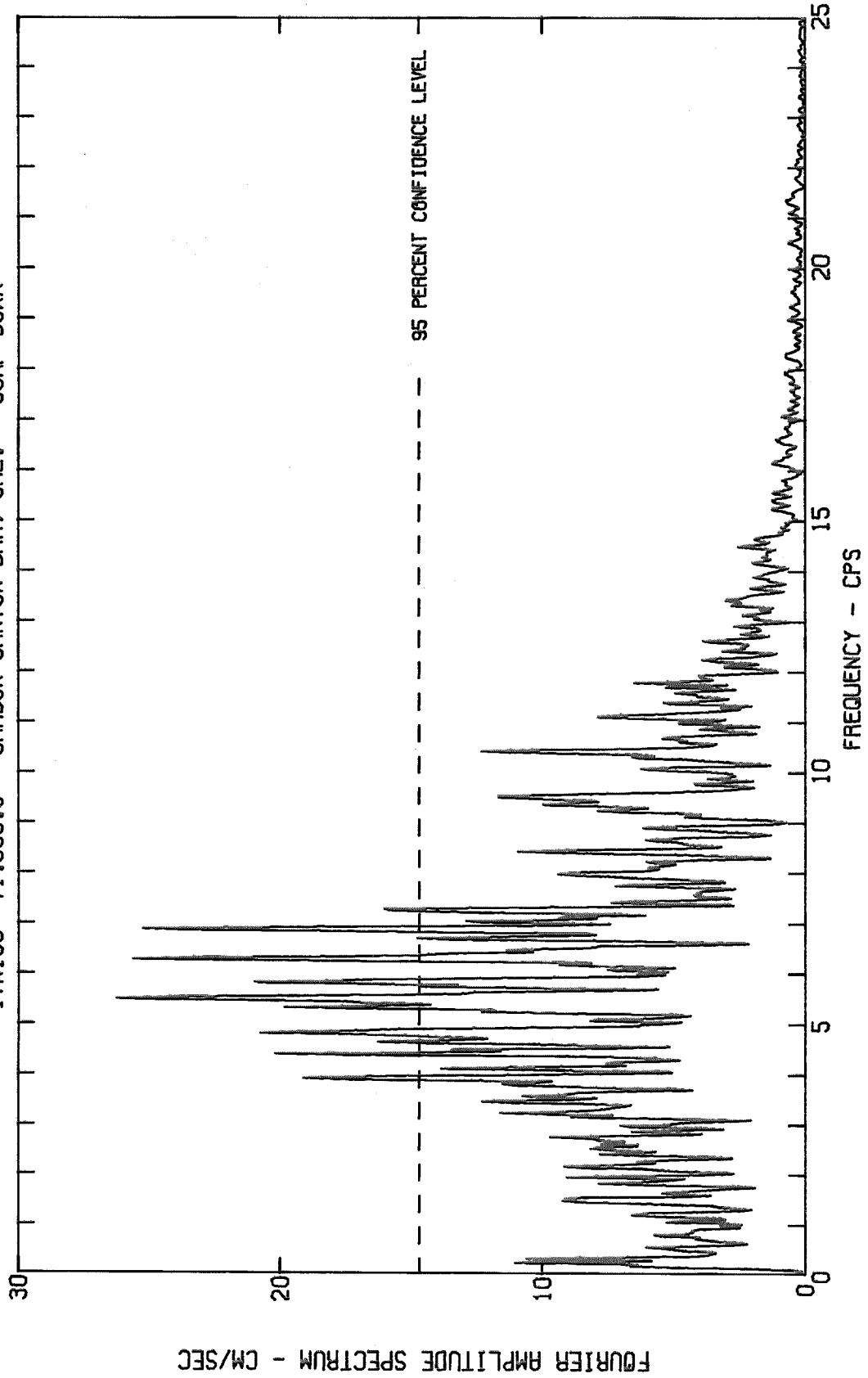
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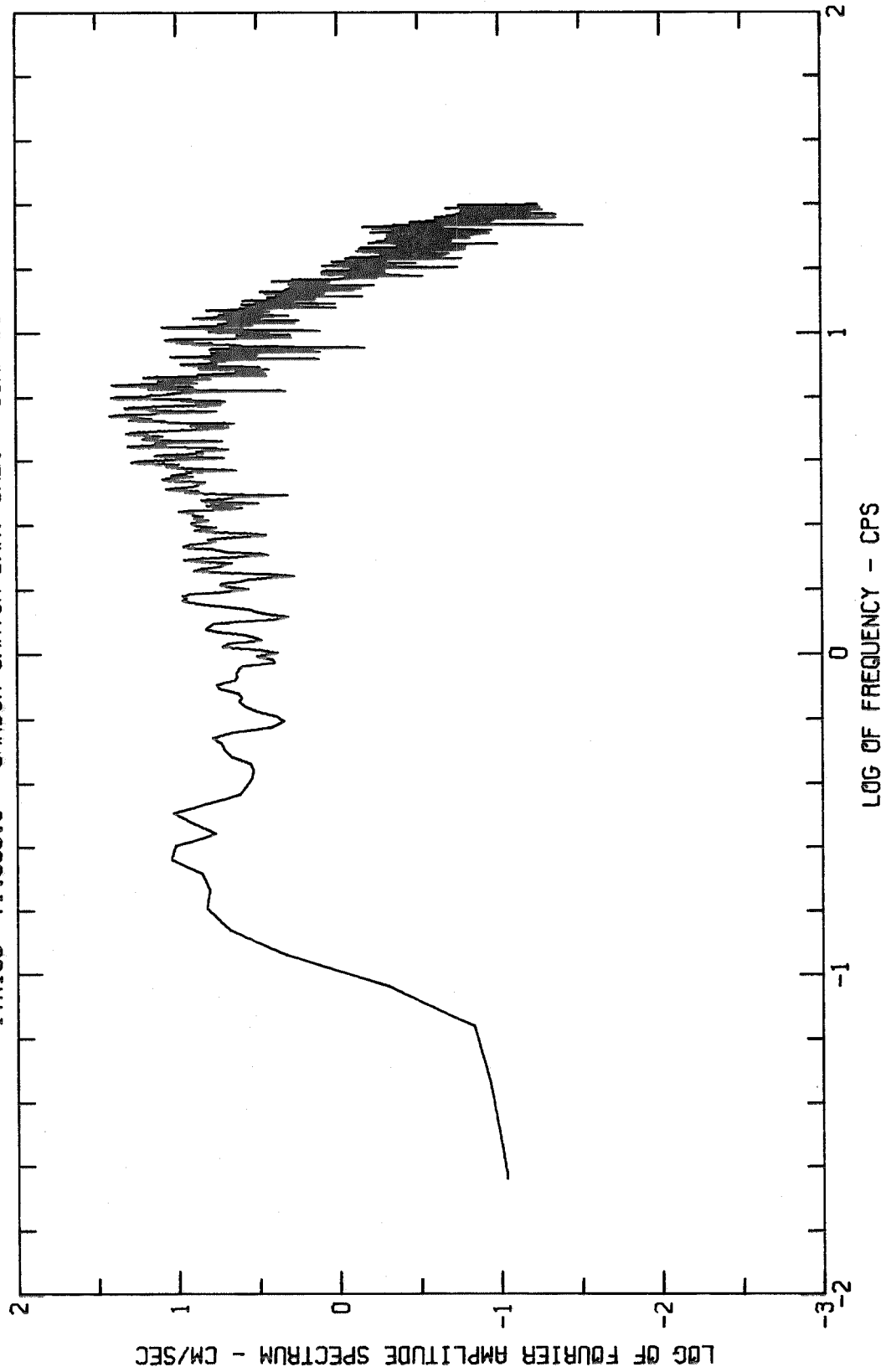
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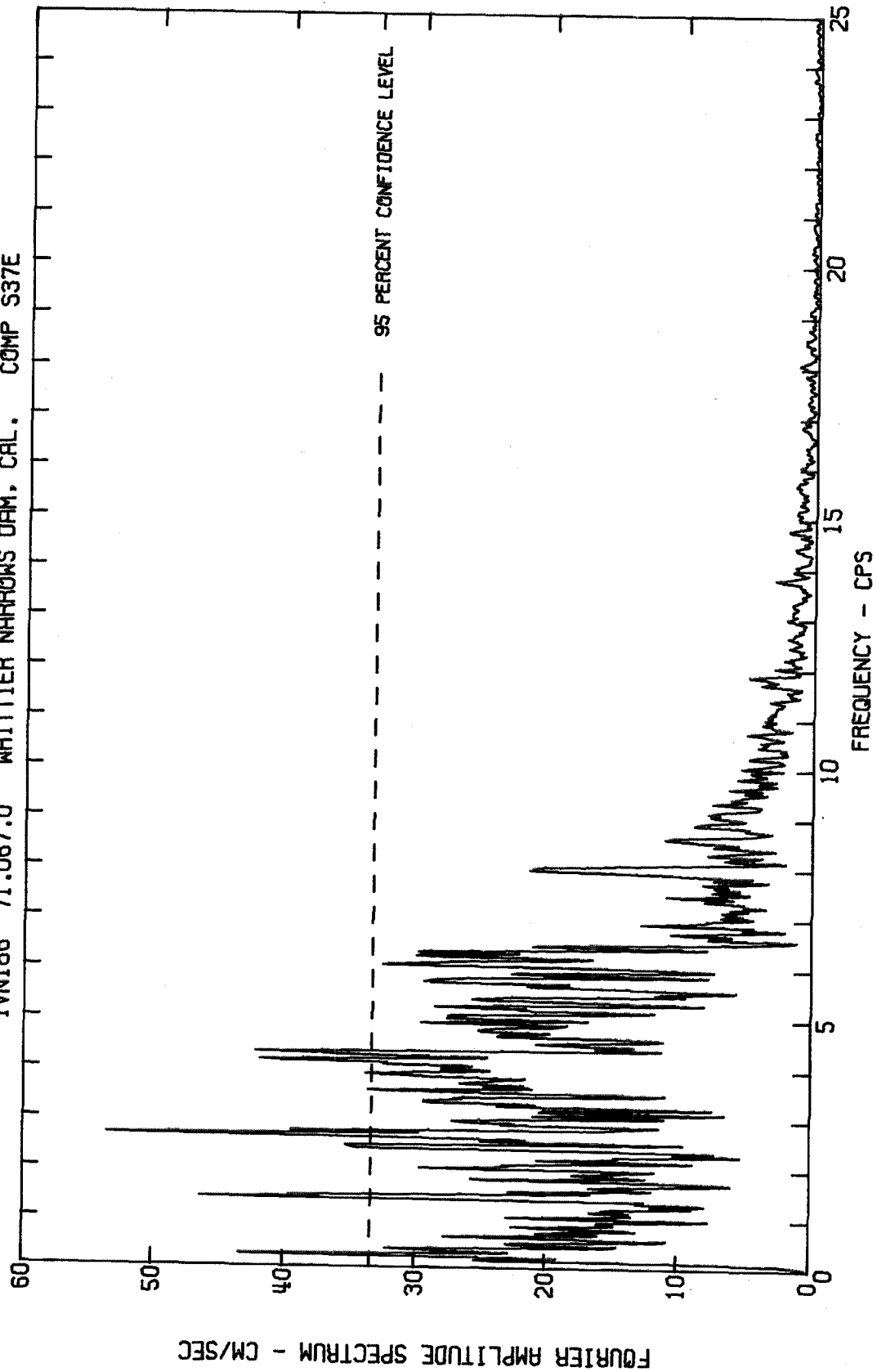
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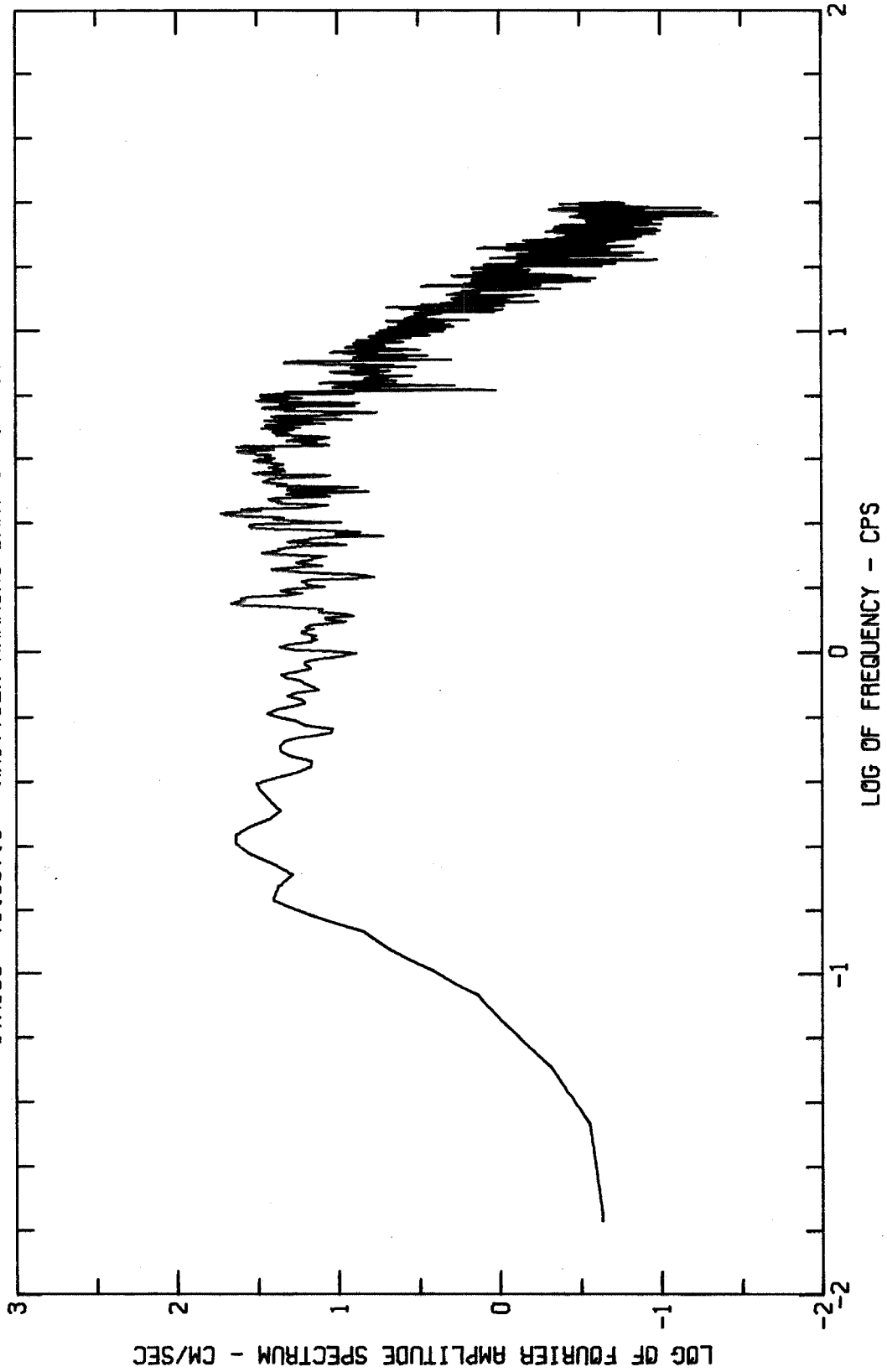
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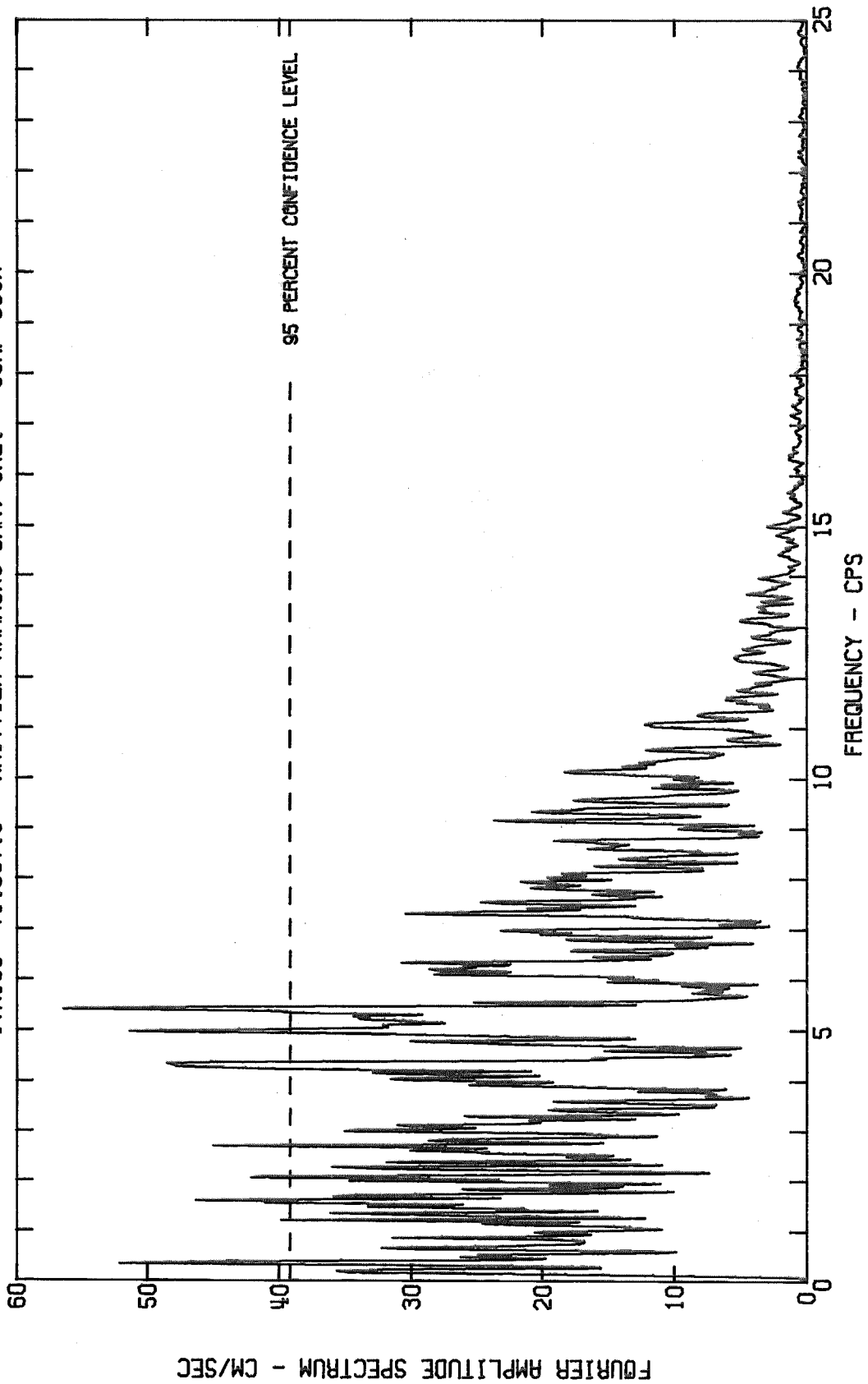
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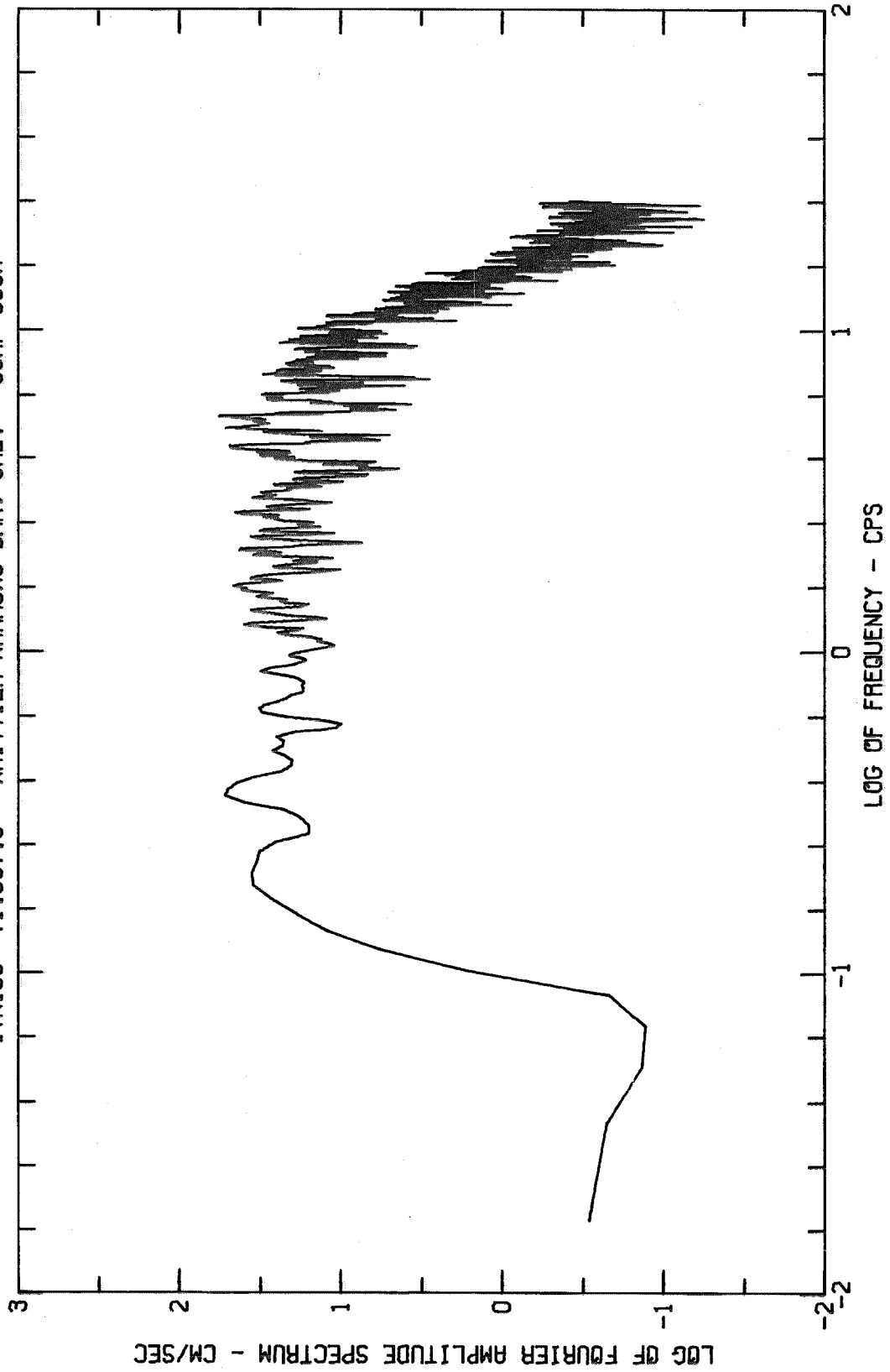
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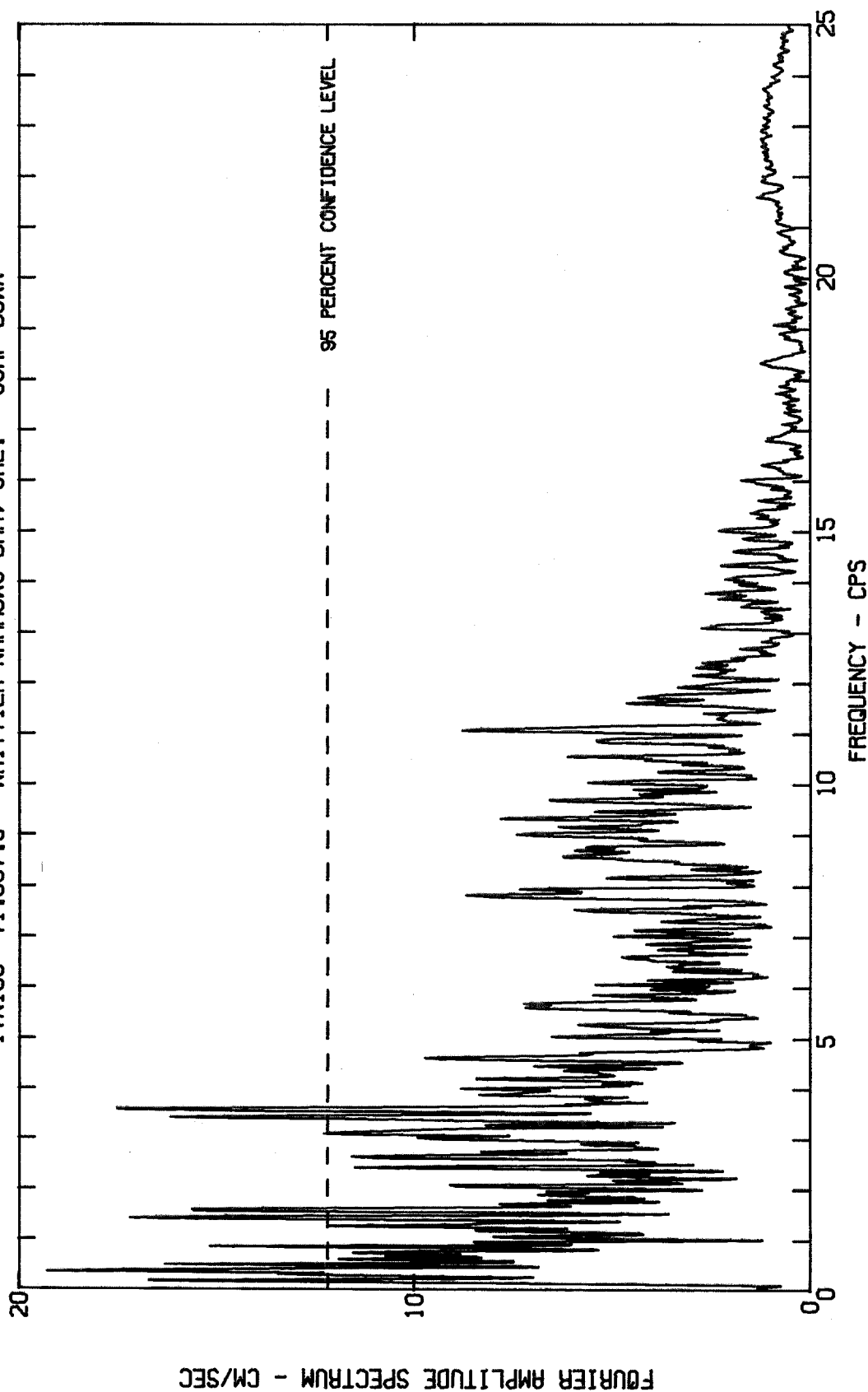
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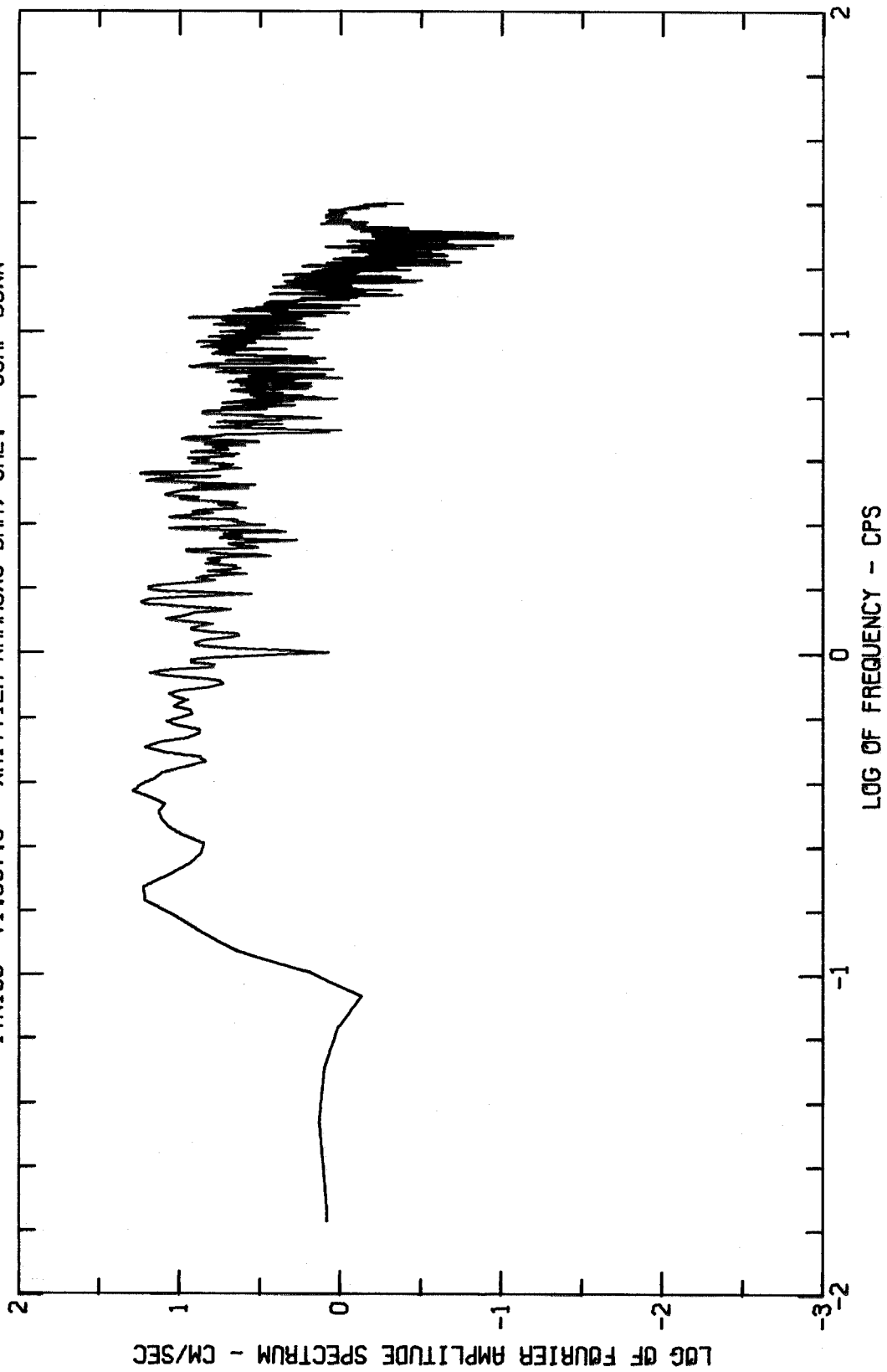
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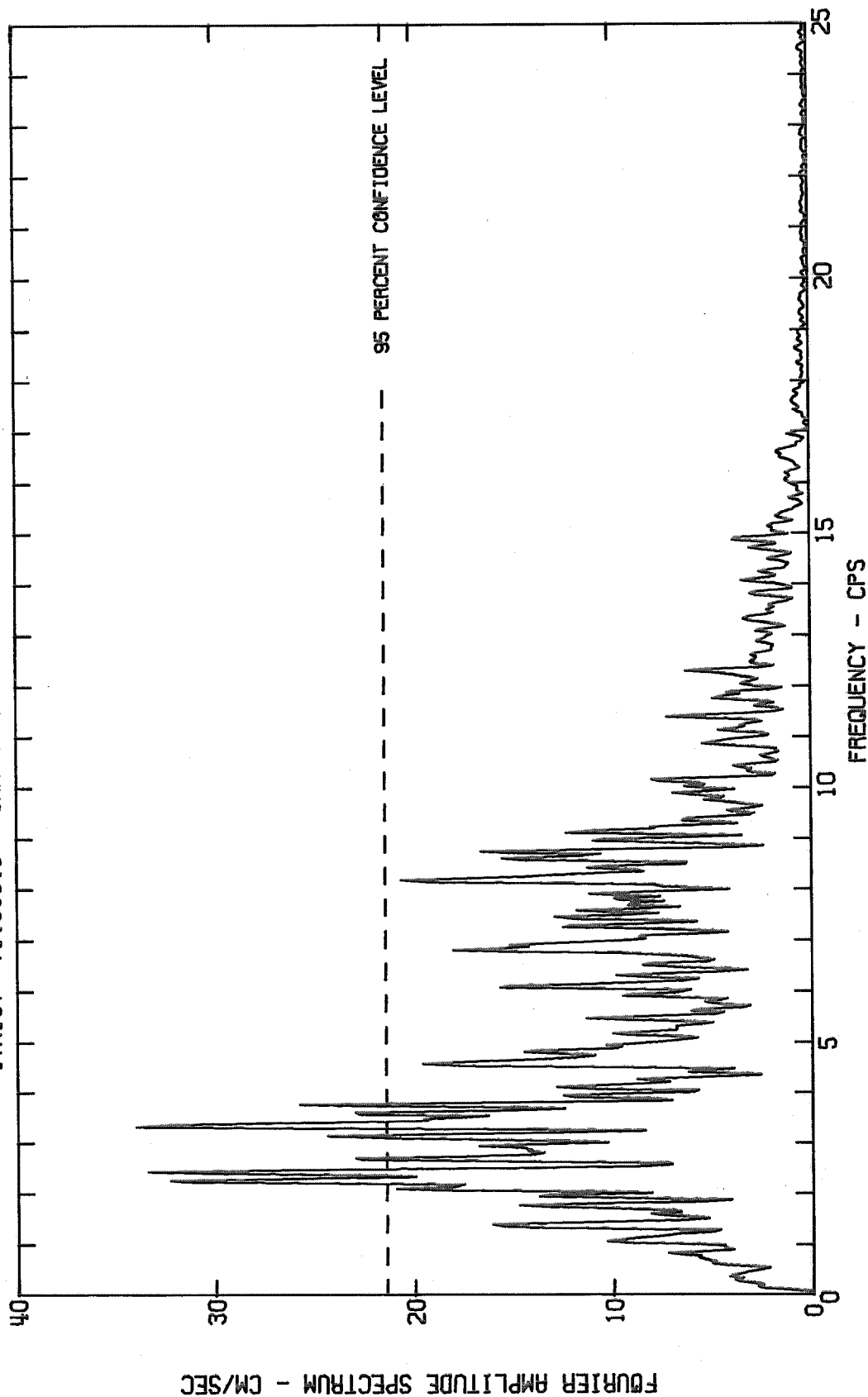
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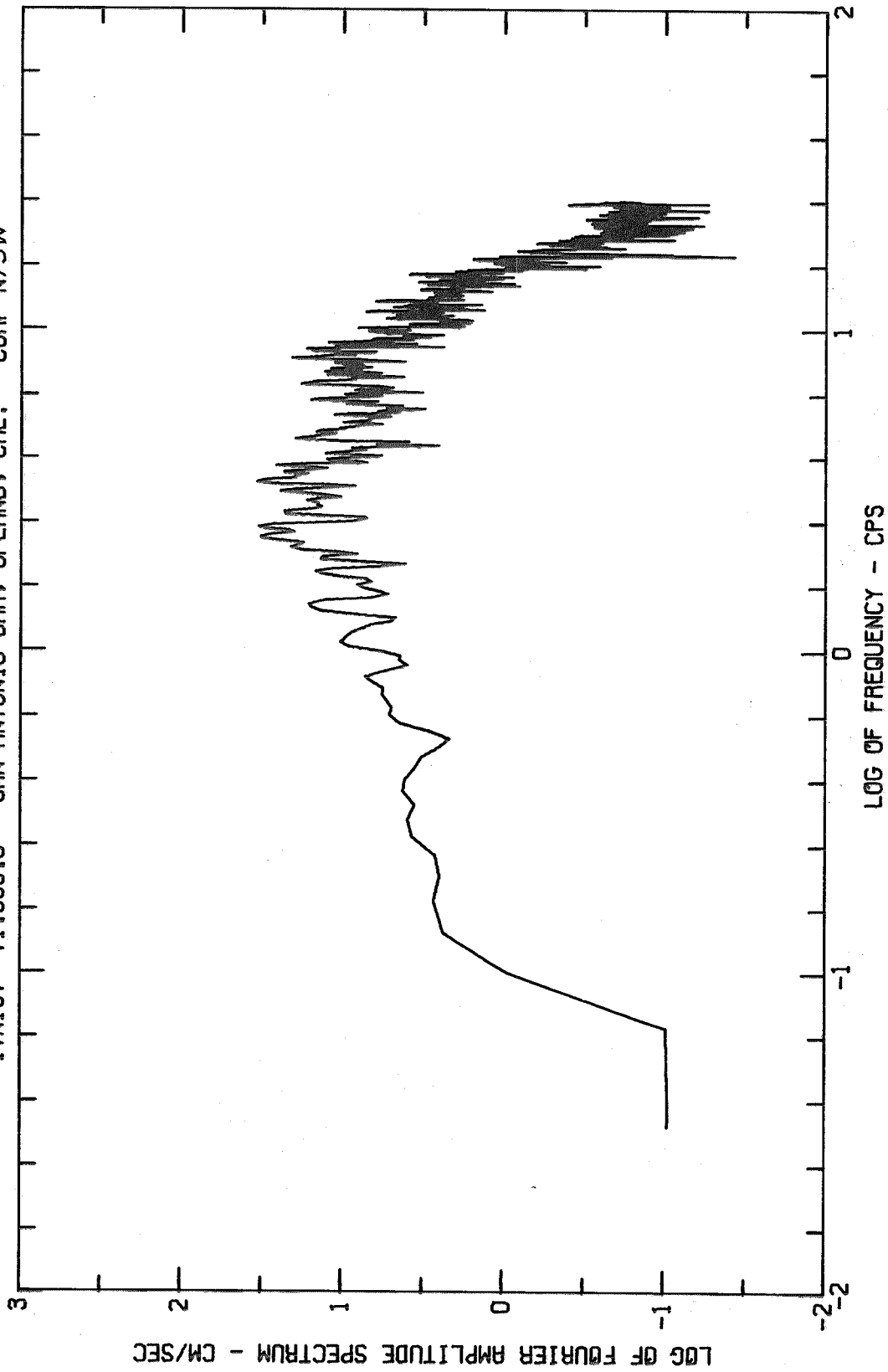
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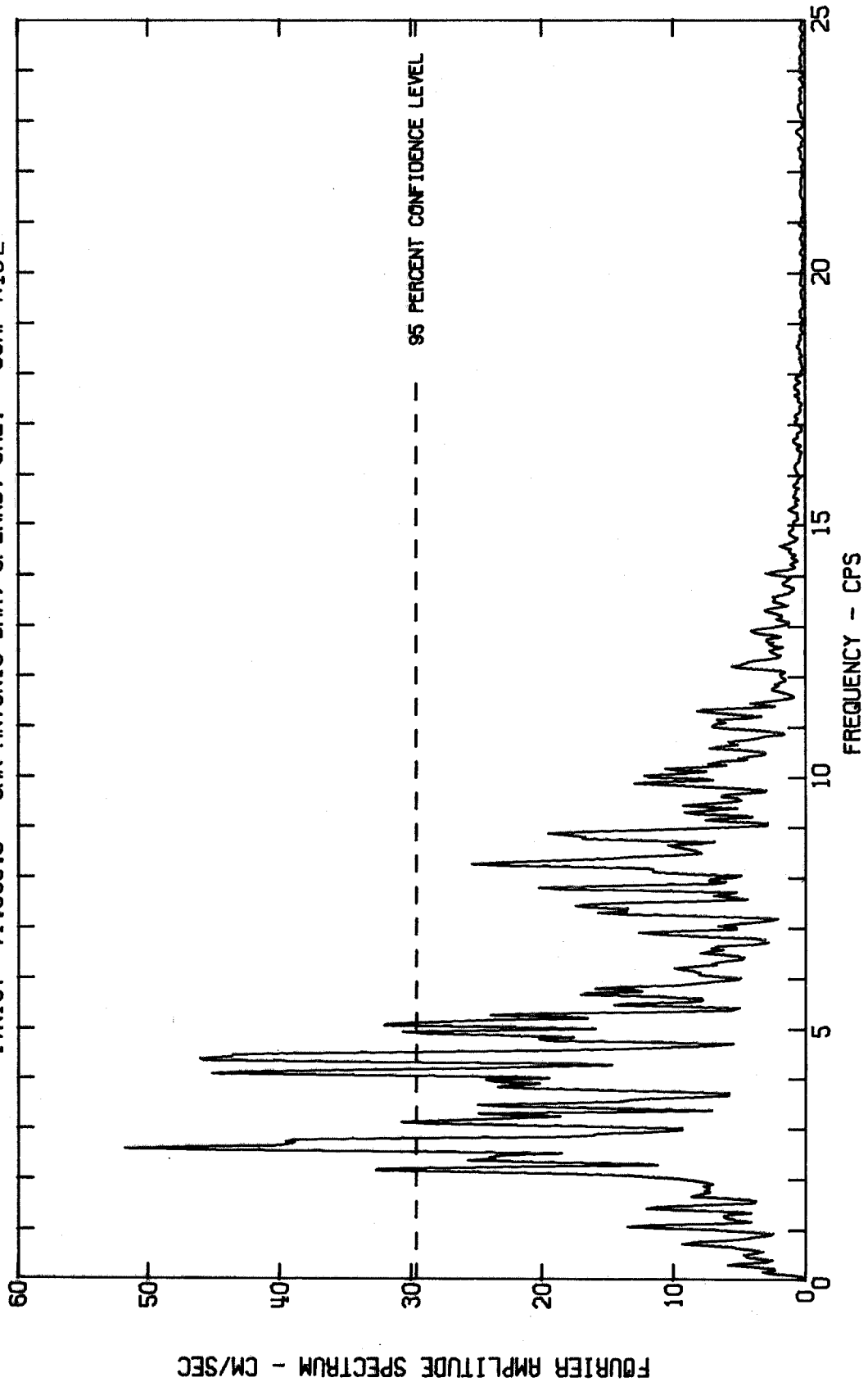
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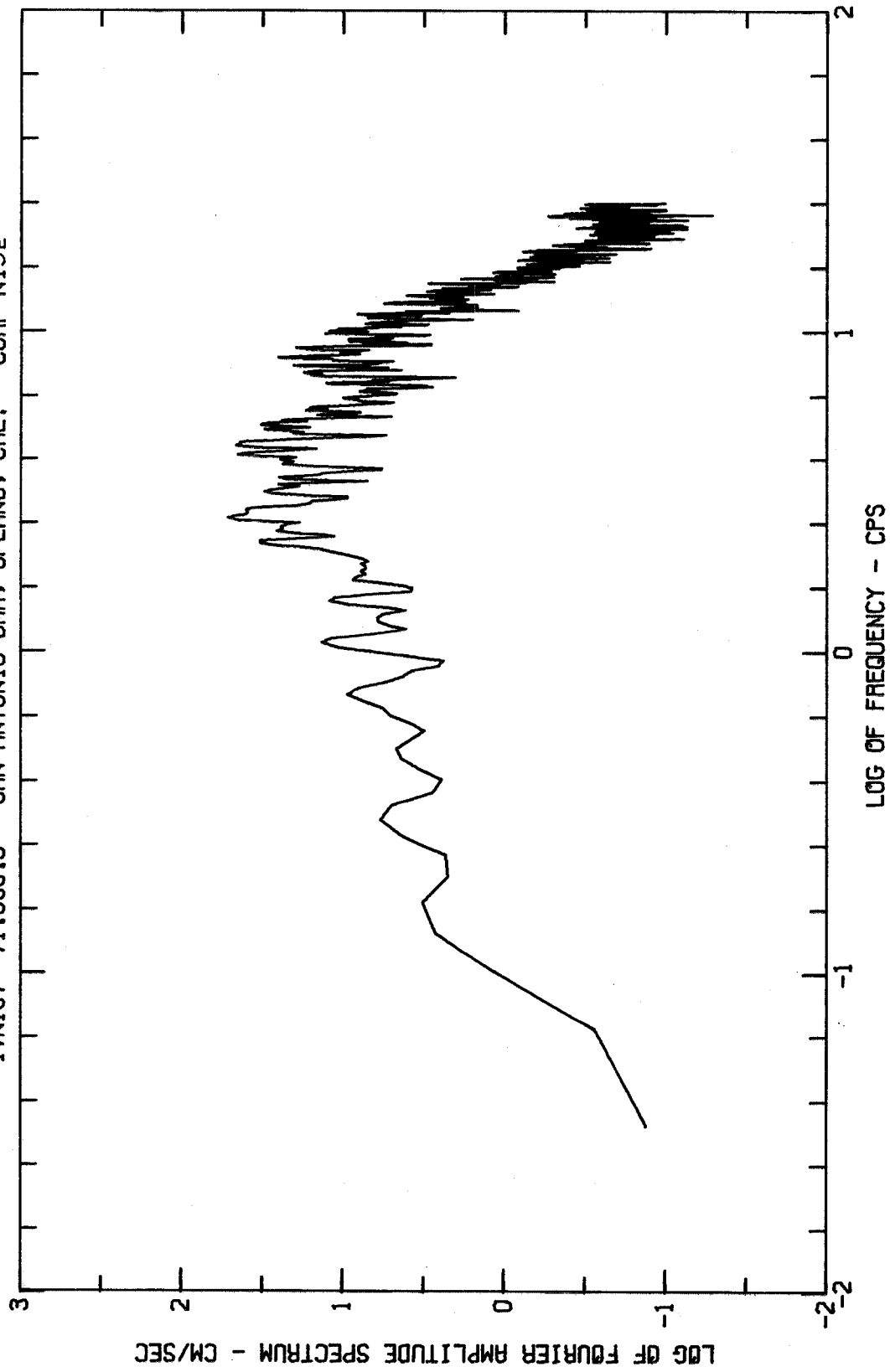
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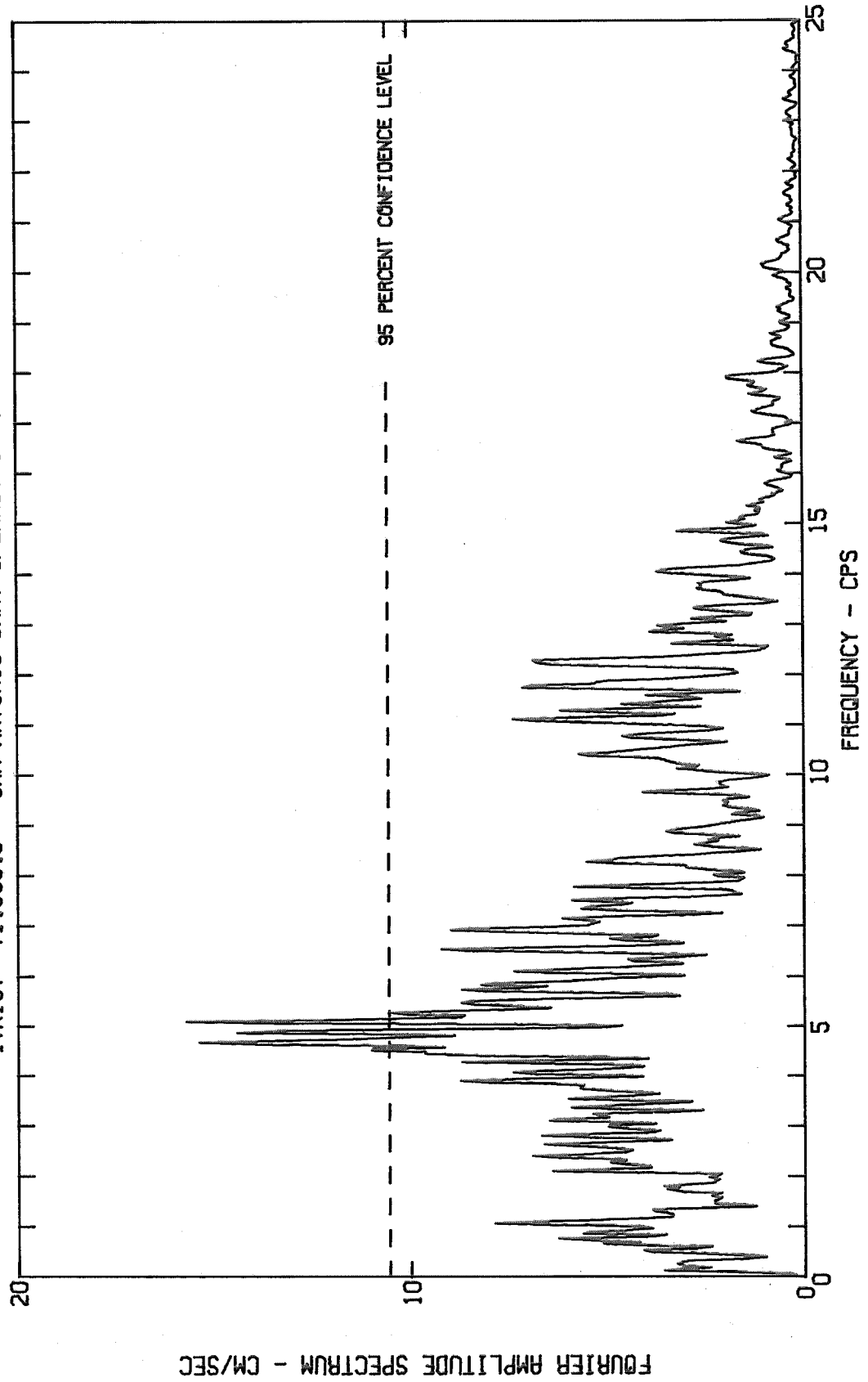
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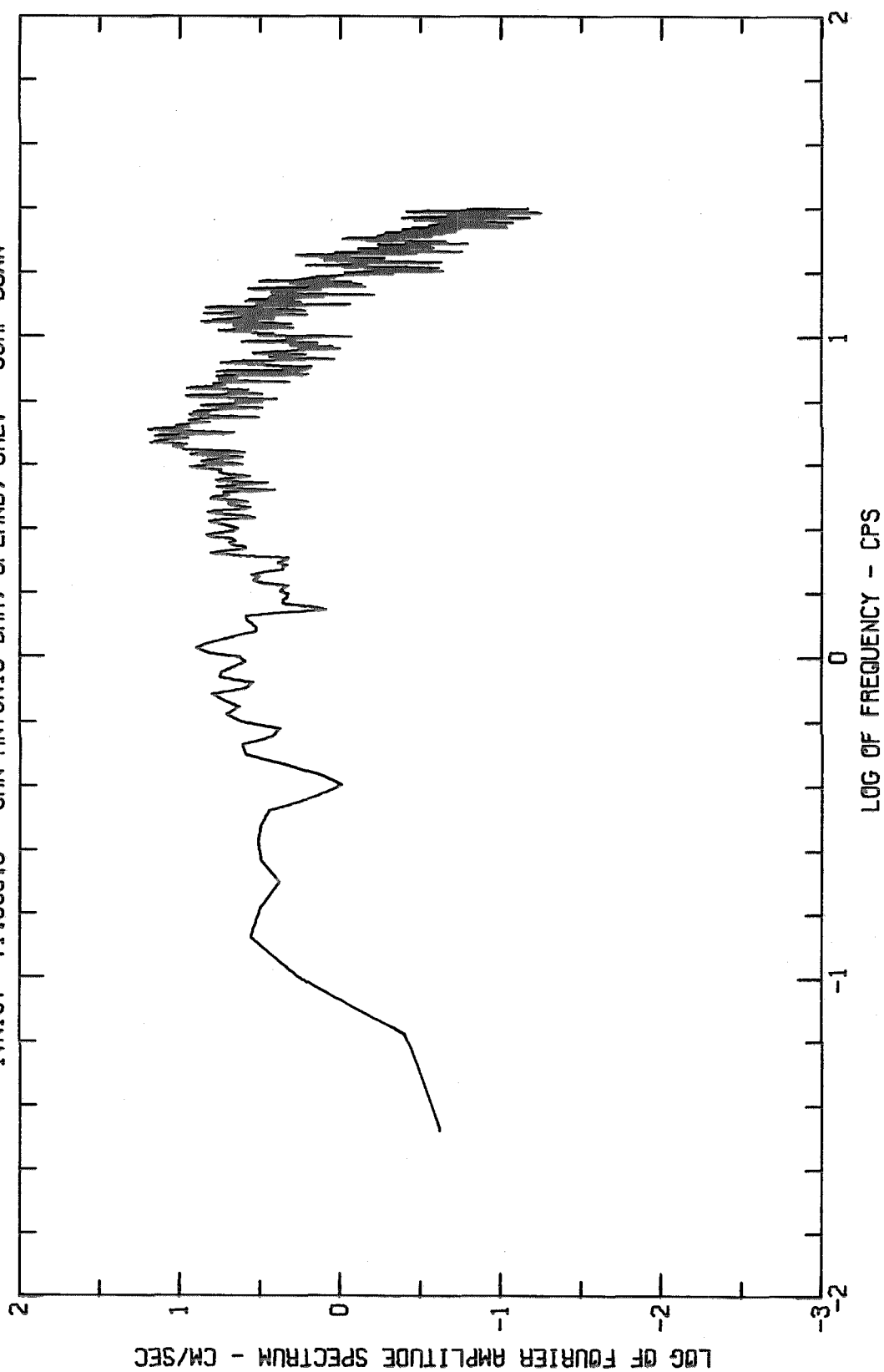
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FOURIER AMPLITUDE SPECTRUM OF ACCELERATION
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
IVN187 71.068.0 SAN ANTONIO DAM, UPLAND, CAL. COMP DOWN



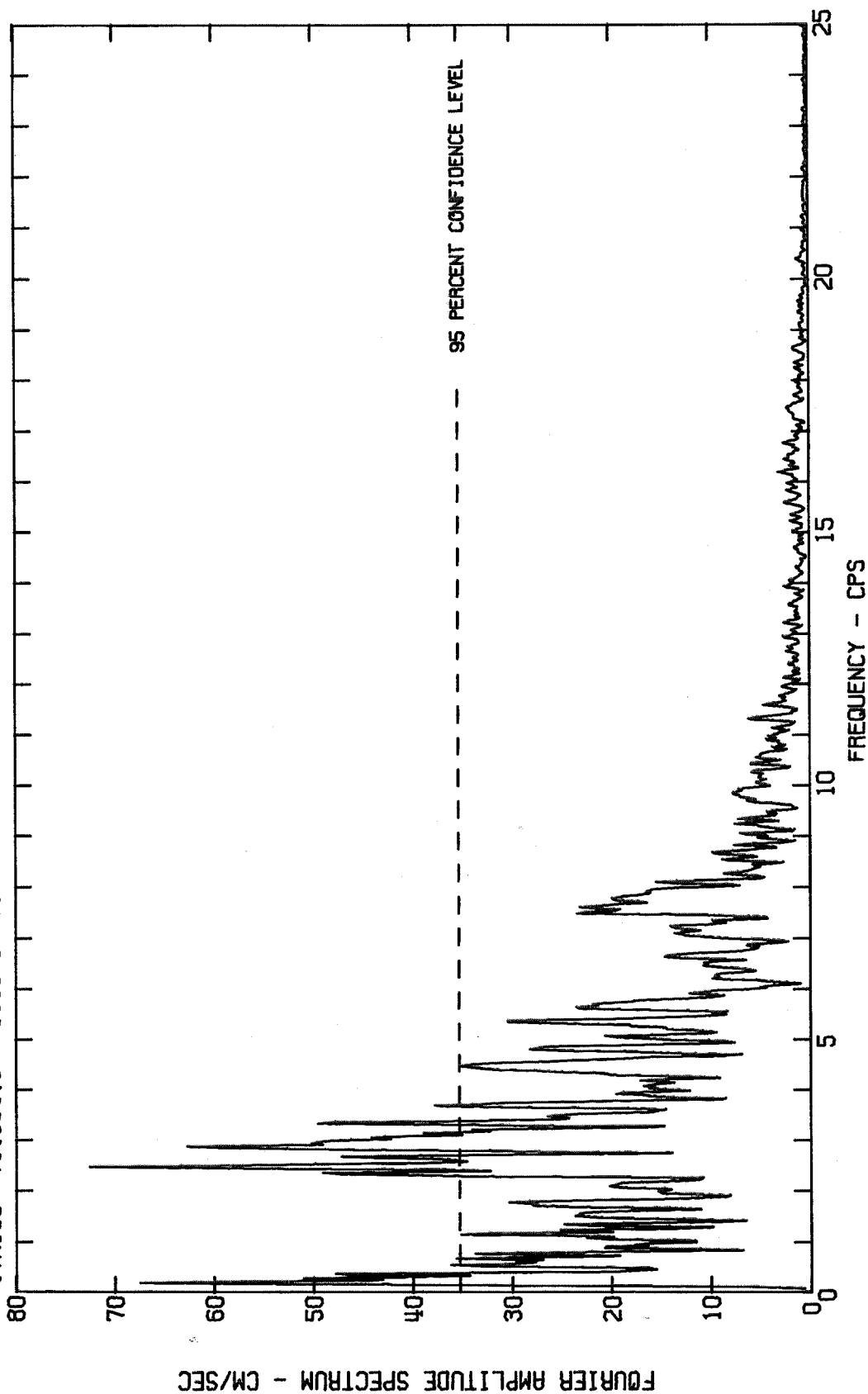
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IVN187 71.068.0 SAN ANTONIO DAM, UPLAND, CAL. COMP DOWN



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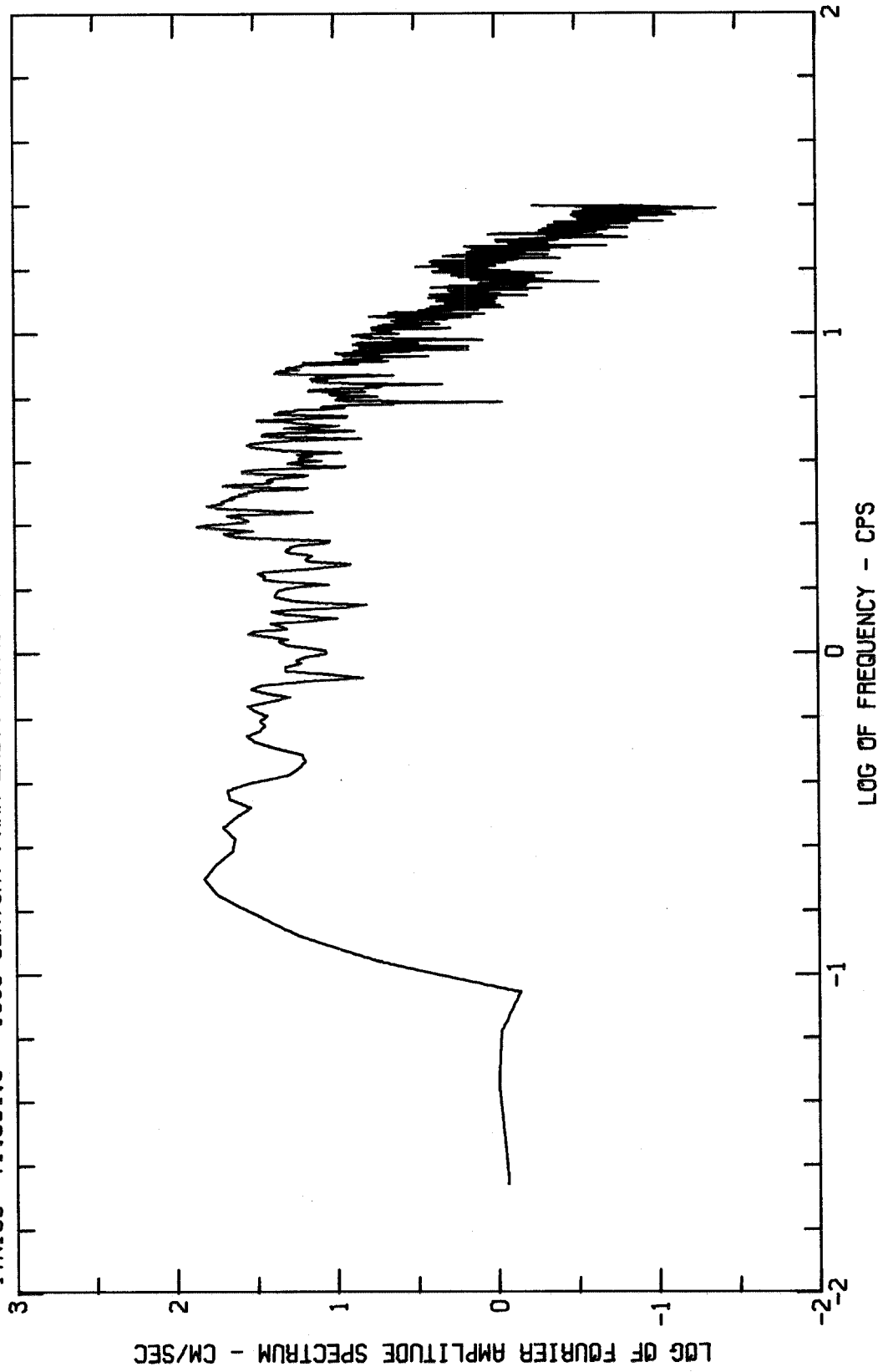
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FOURIER AMPLITUDE SPECTRUM OF ACCELERATION

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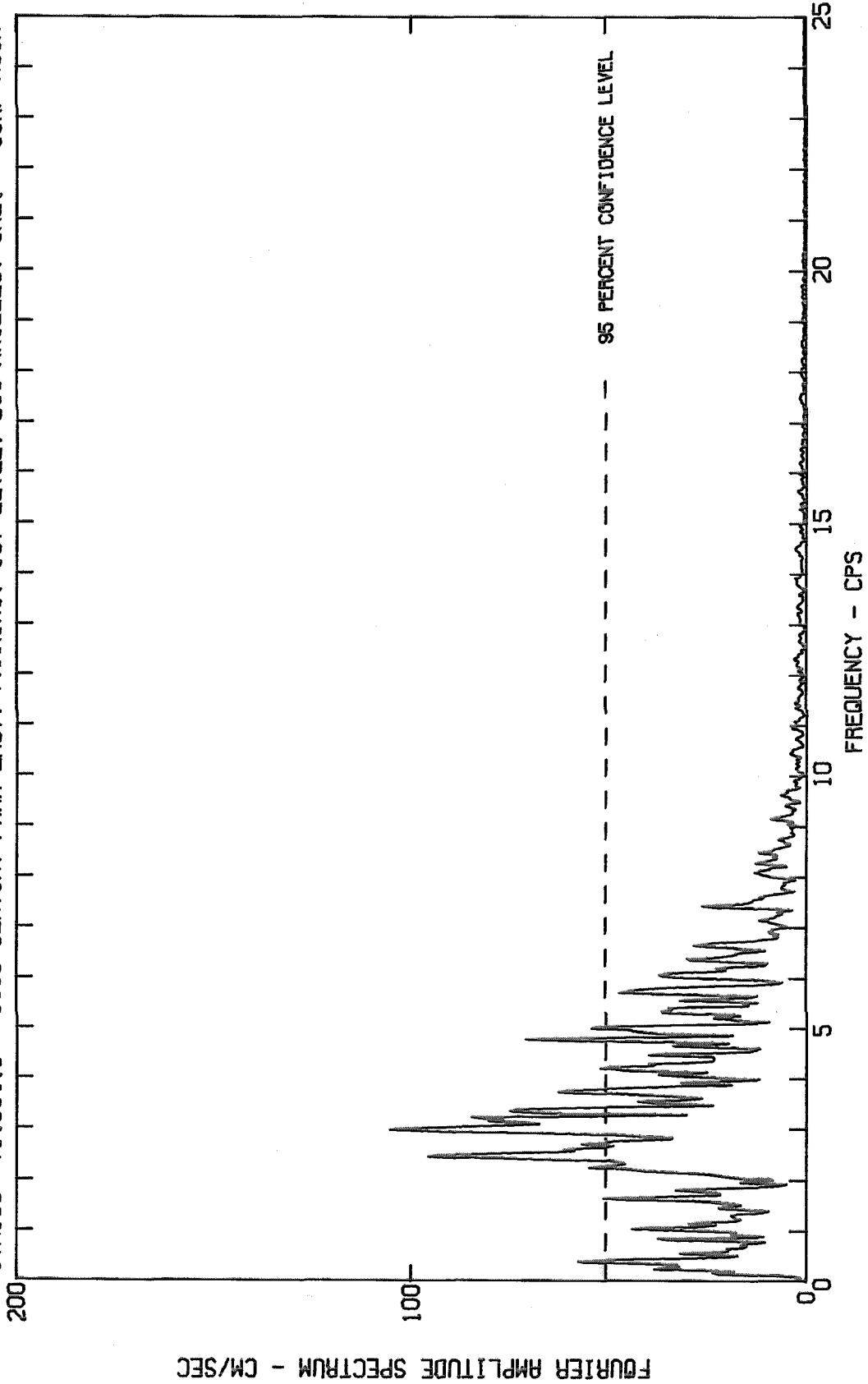
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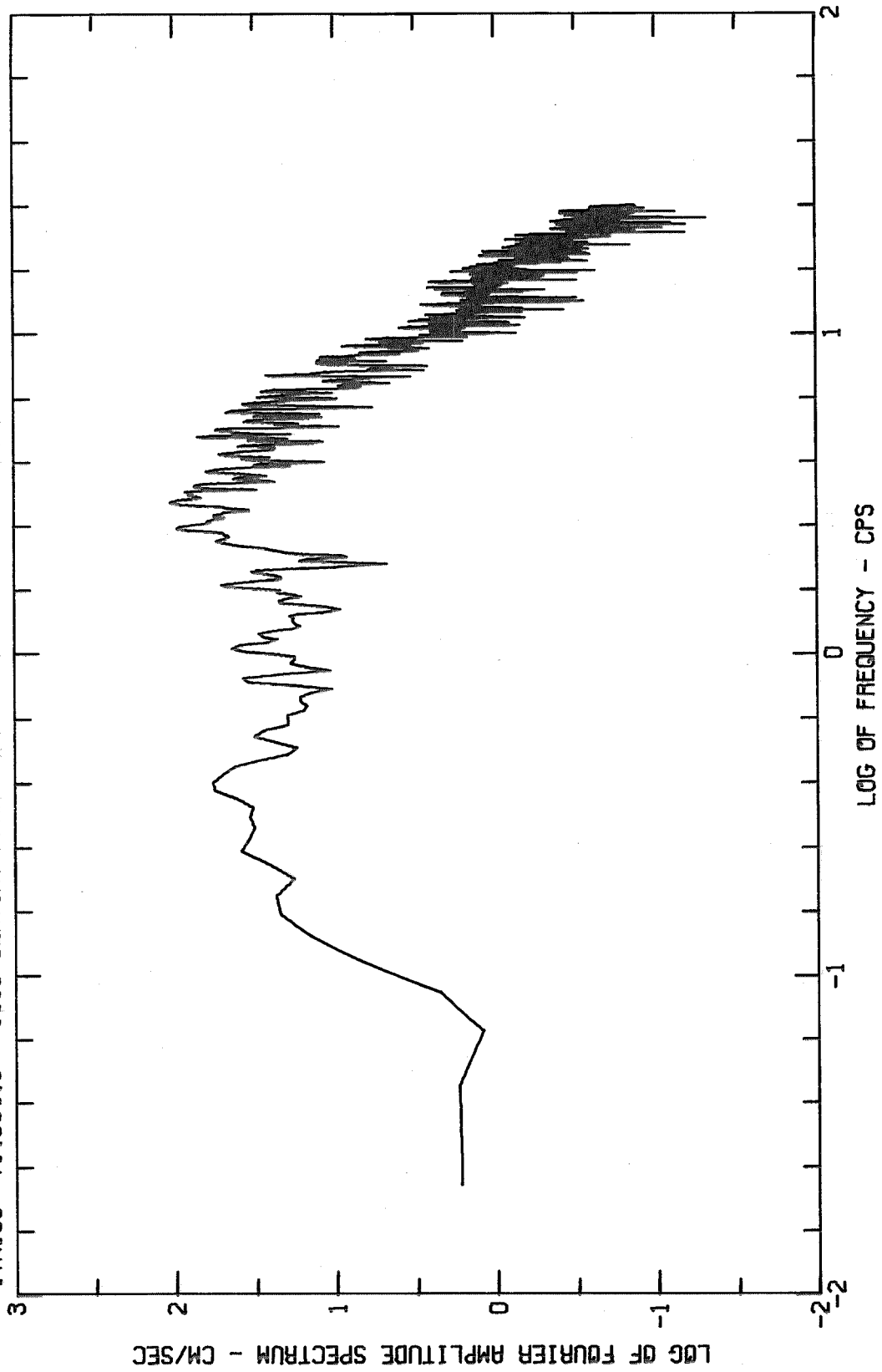
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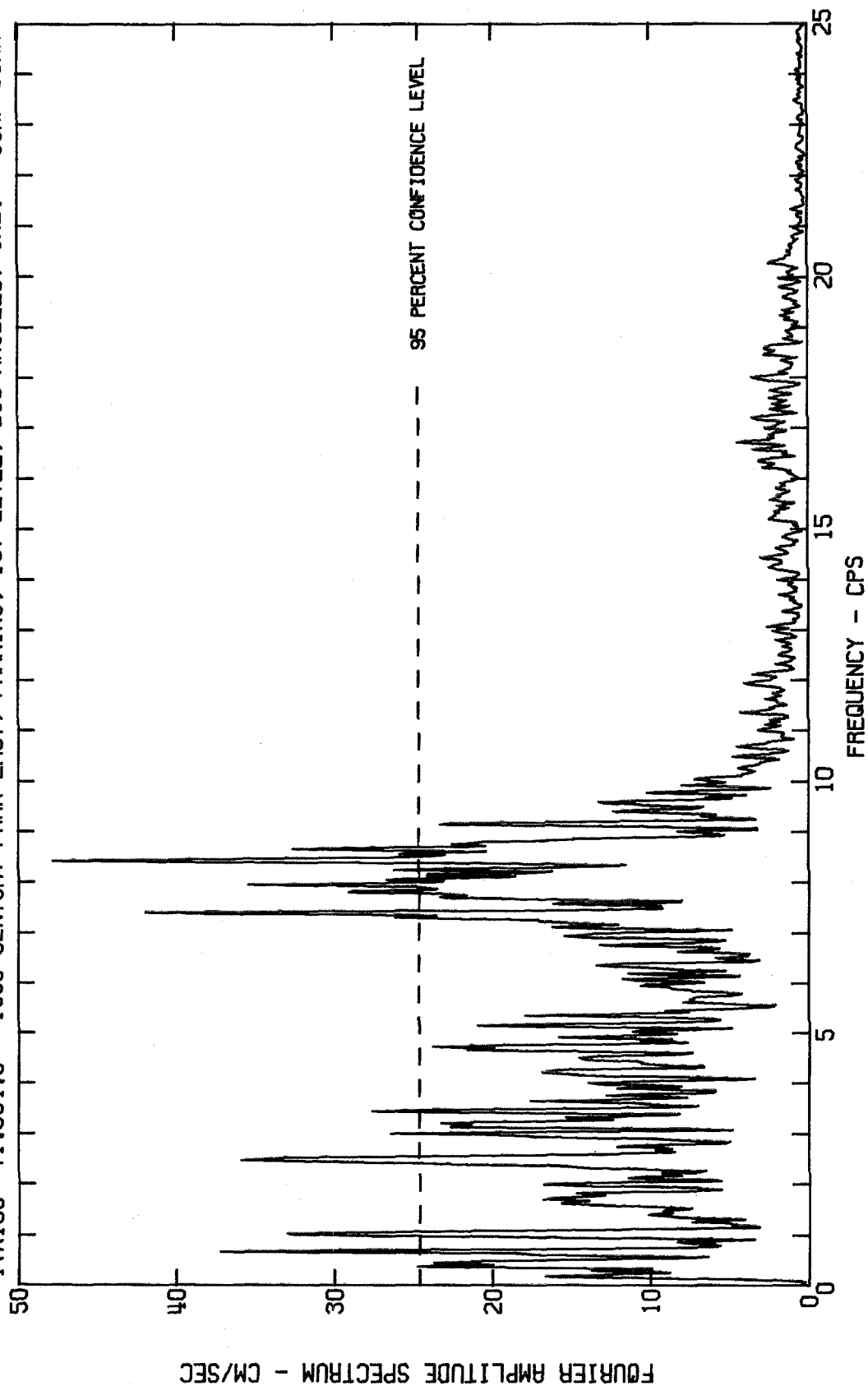
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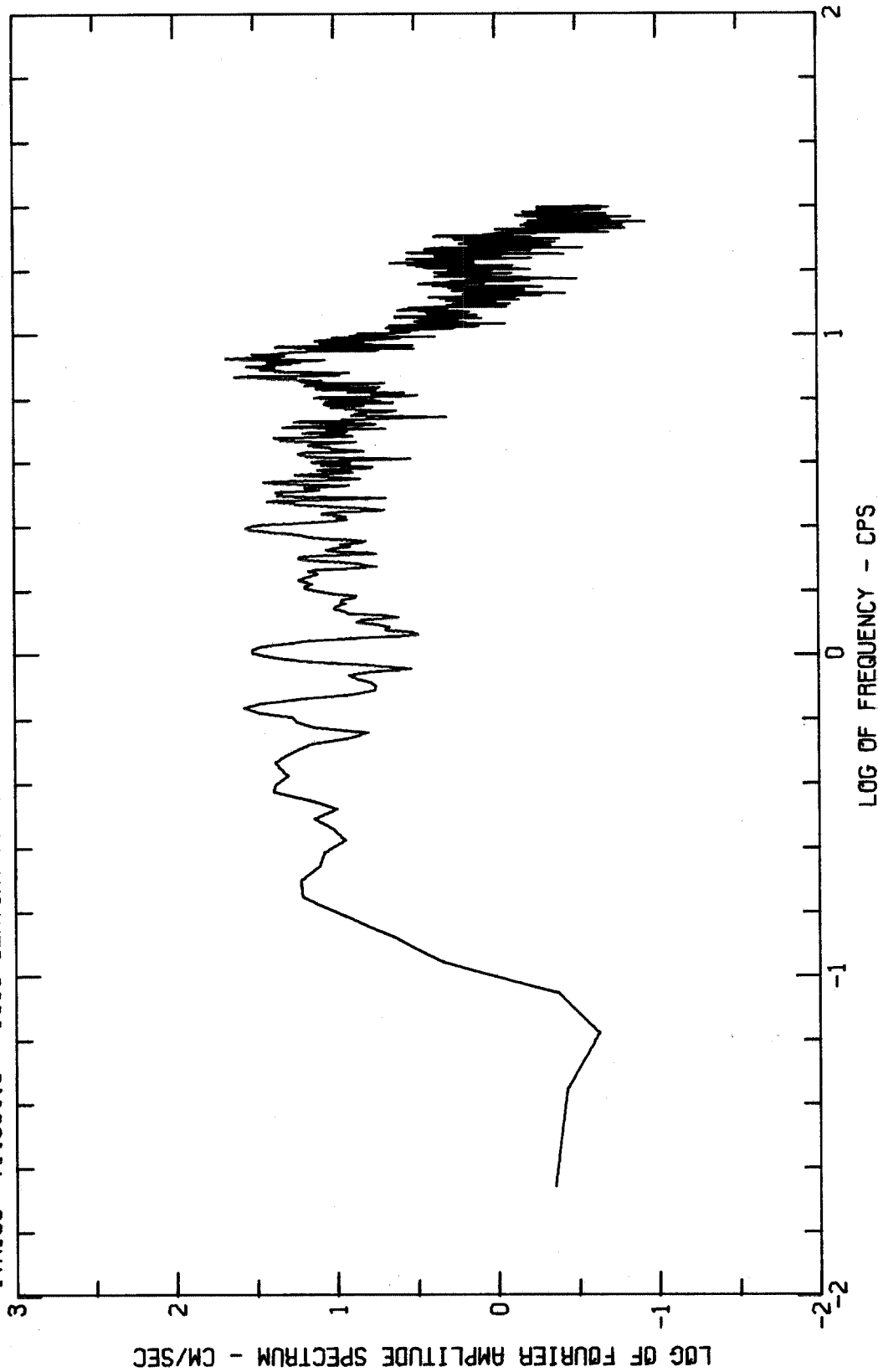
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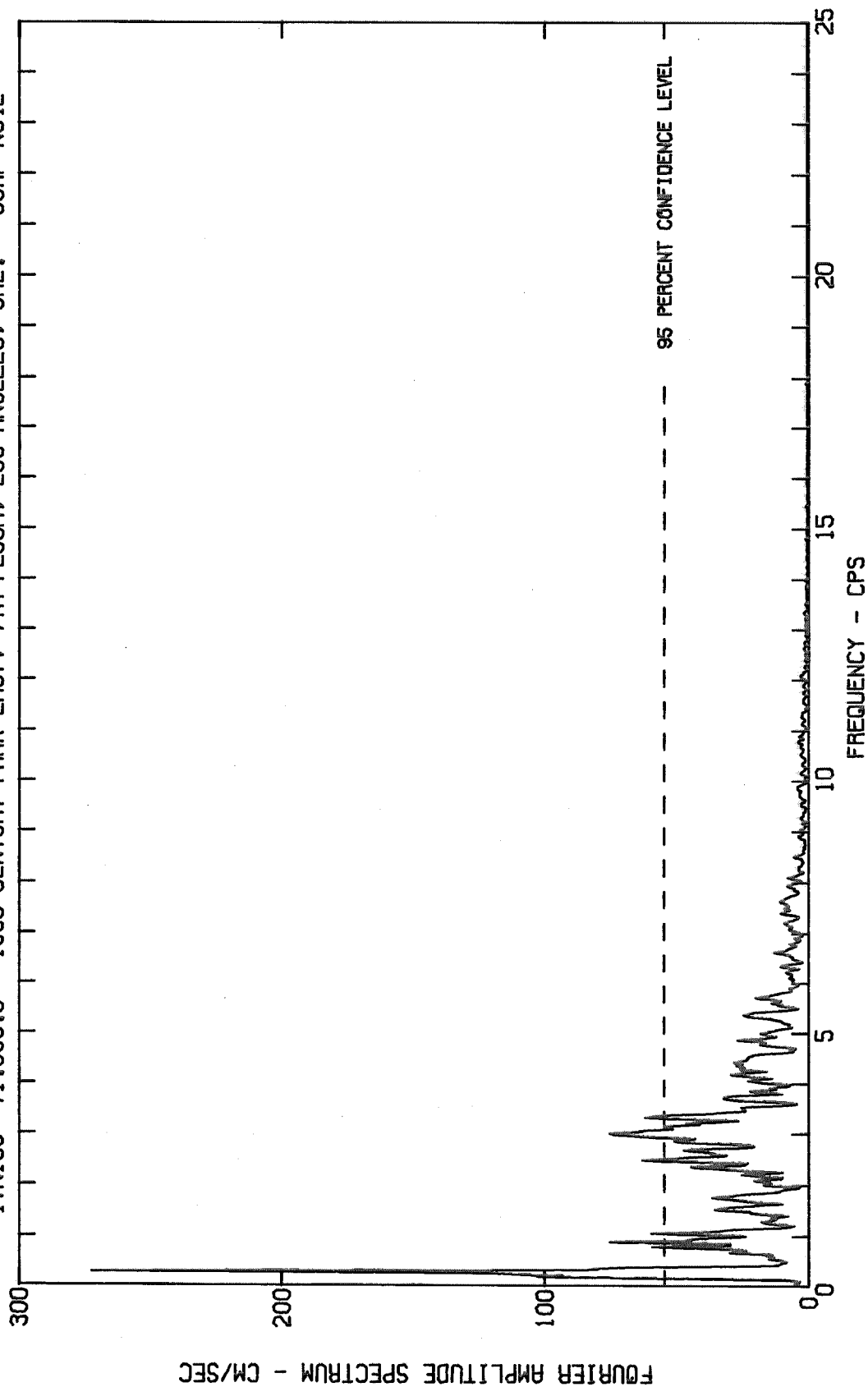
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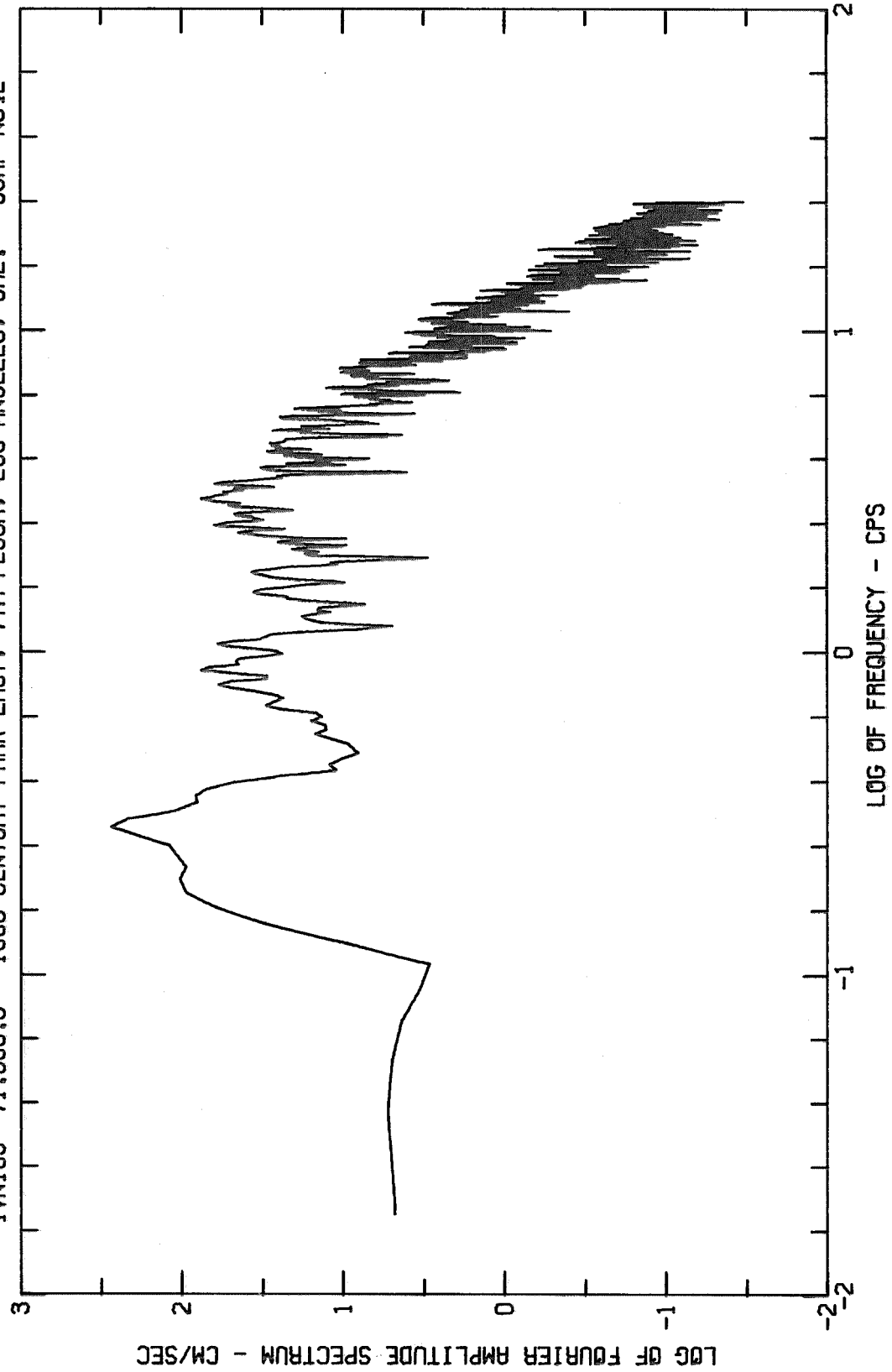
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FOURIER AMPLITUDE SPECTRUM OF ACCELERATION

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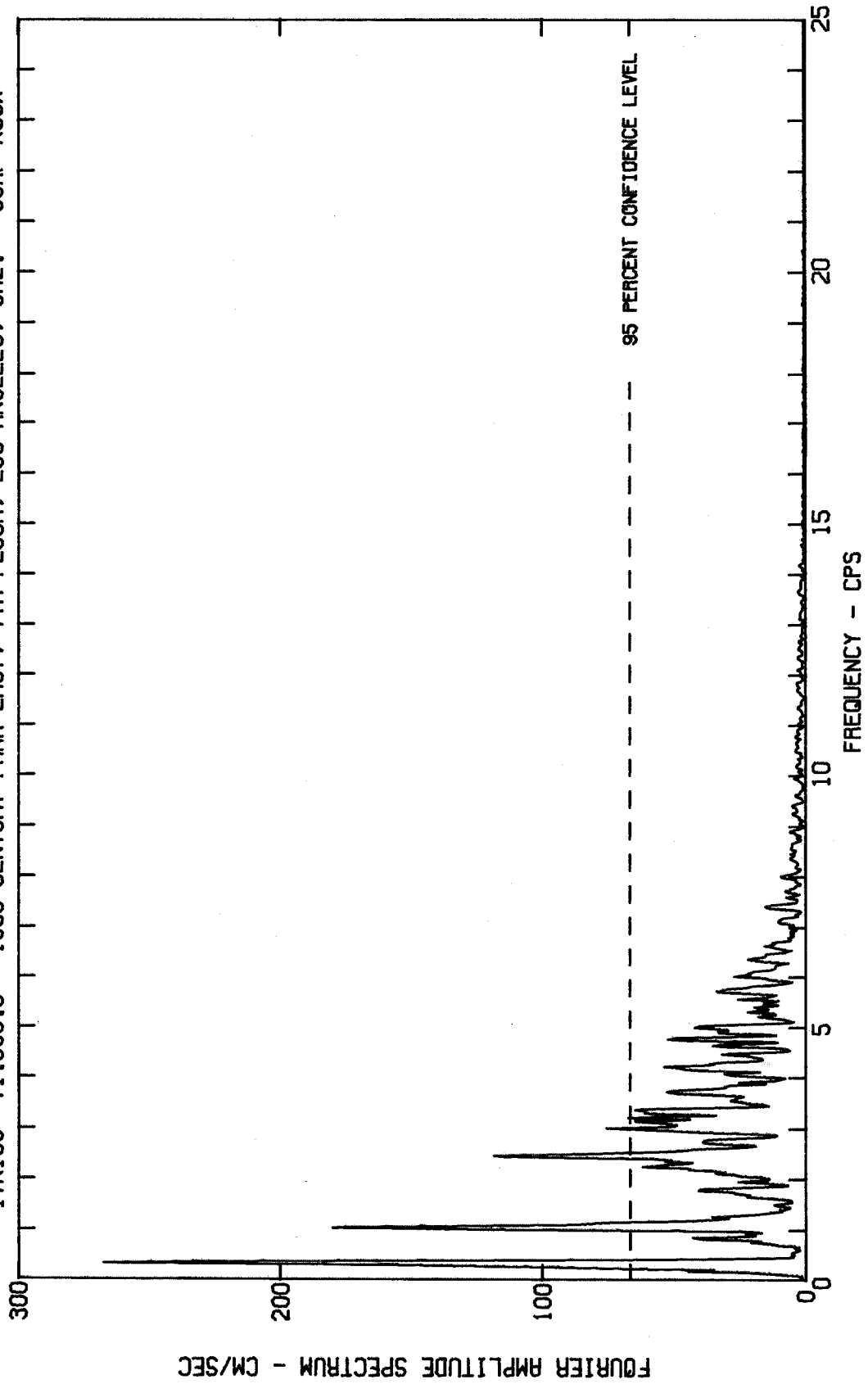
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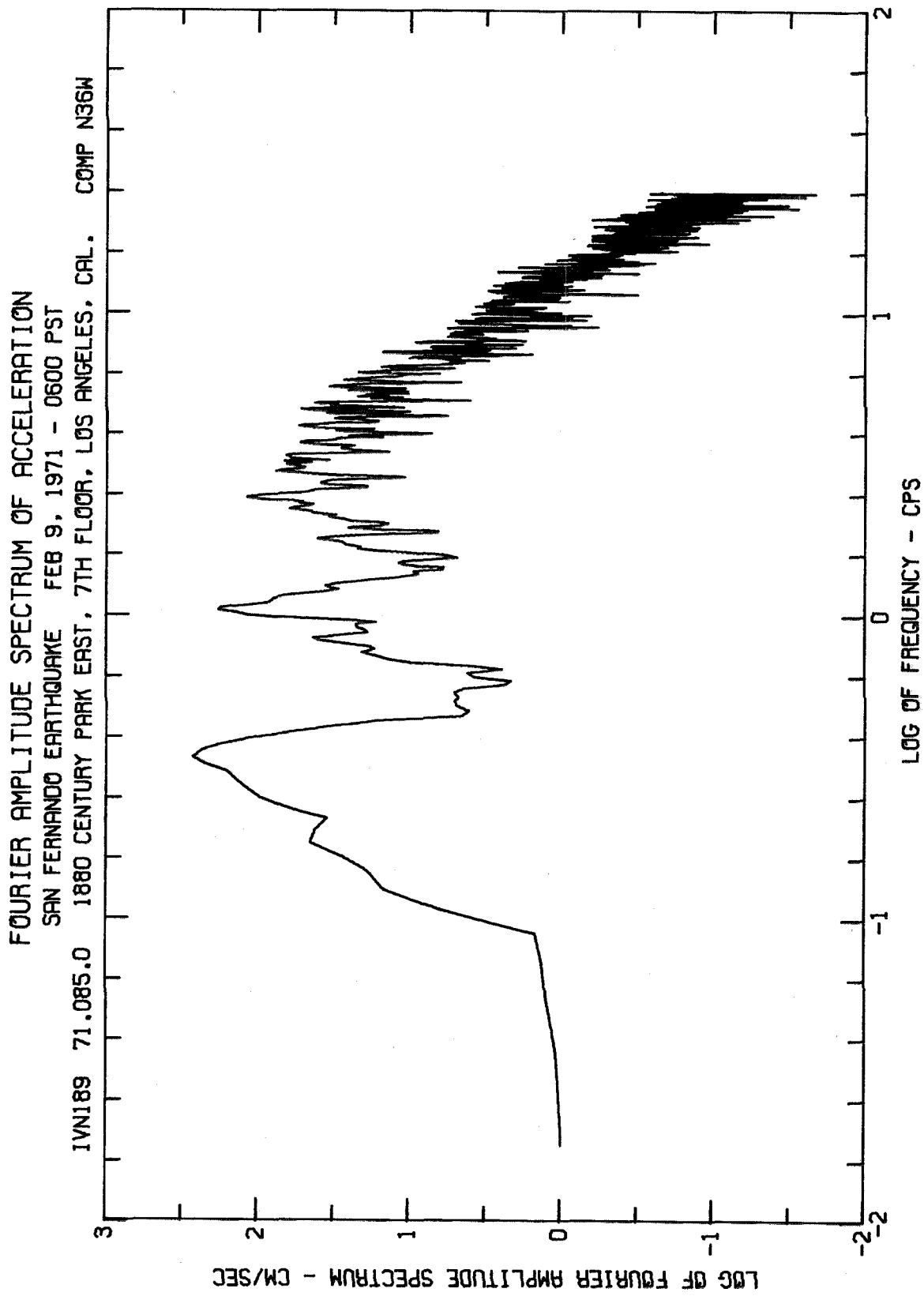


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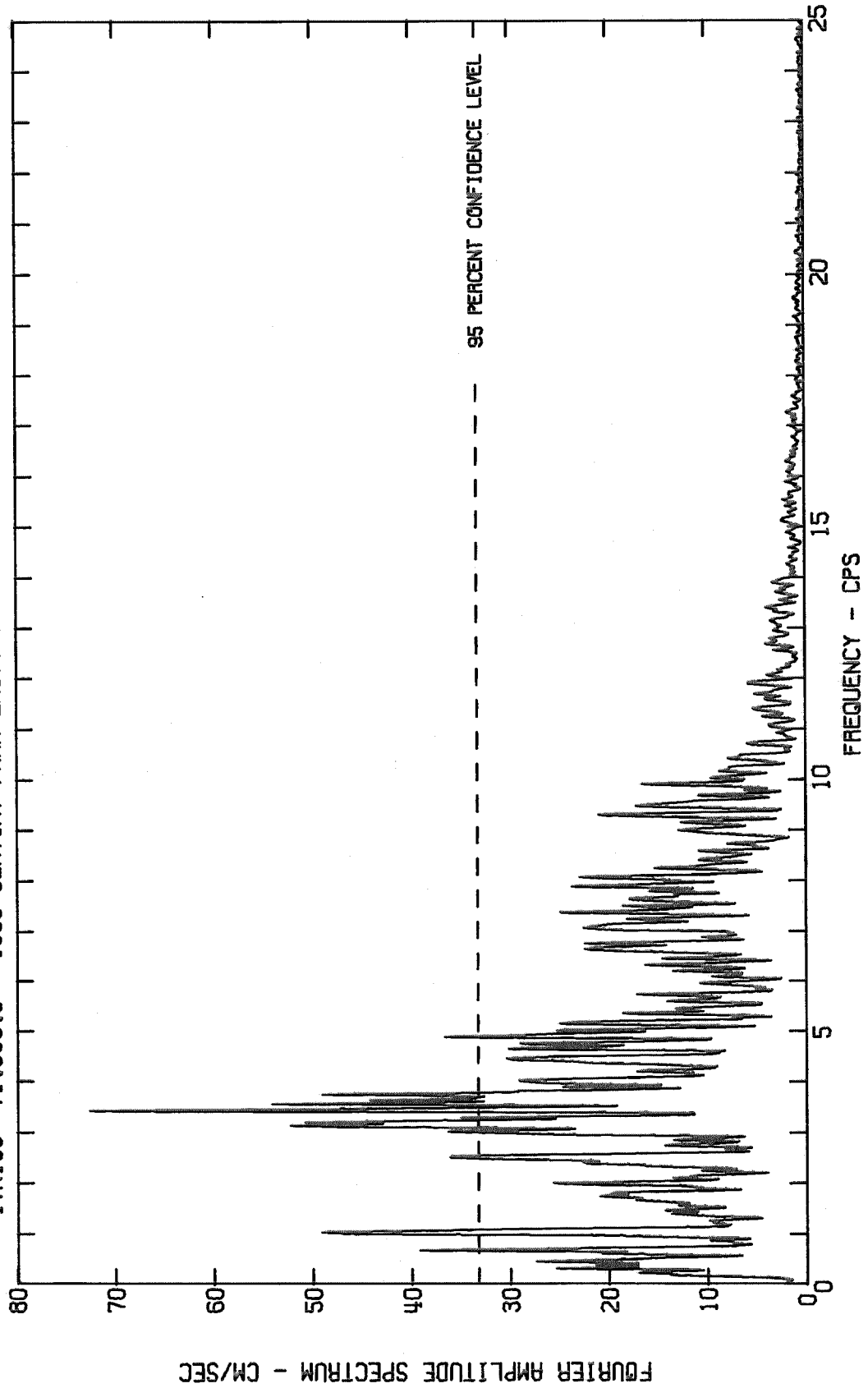




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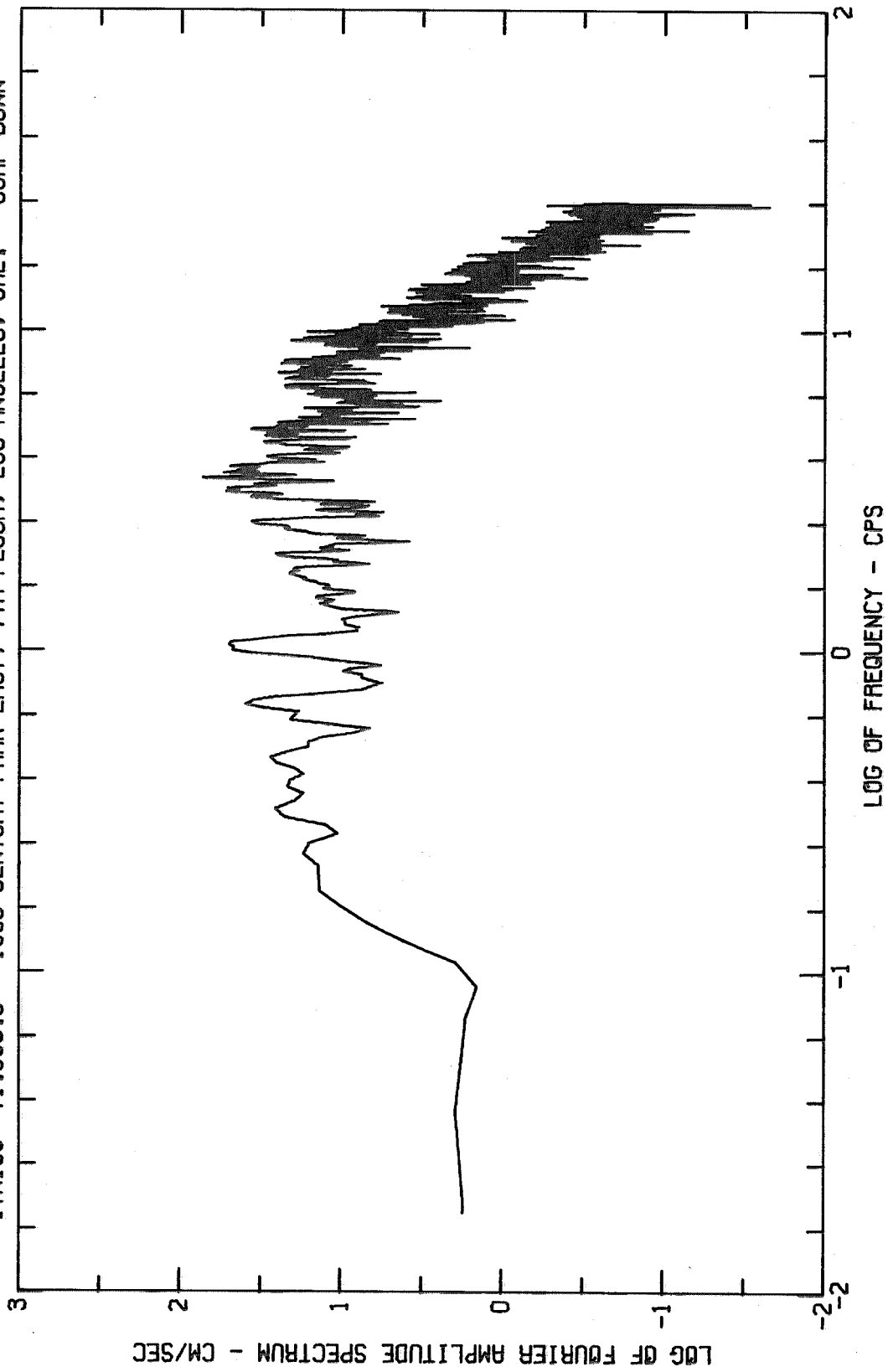
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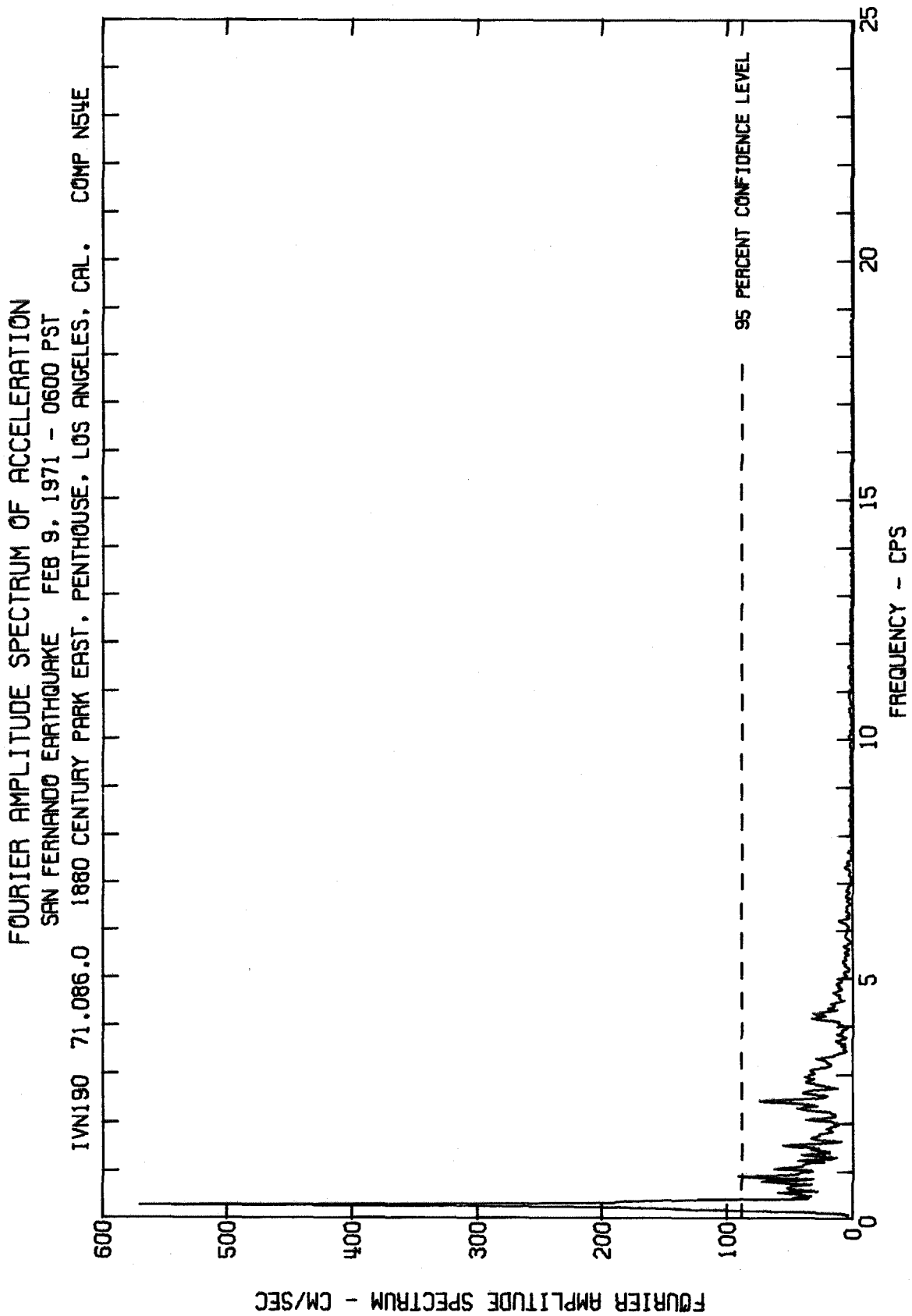


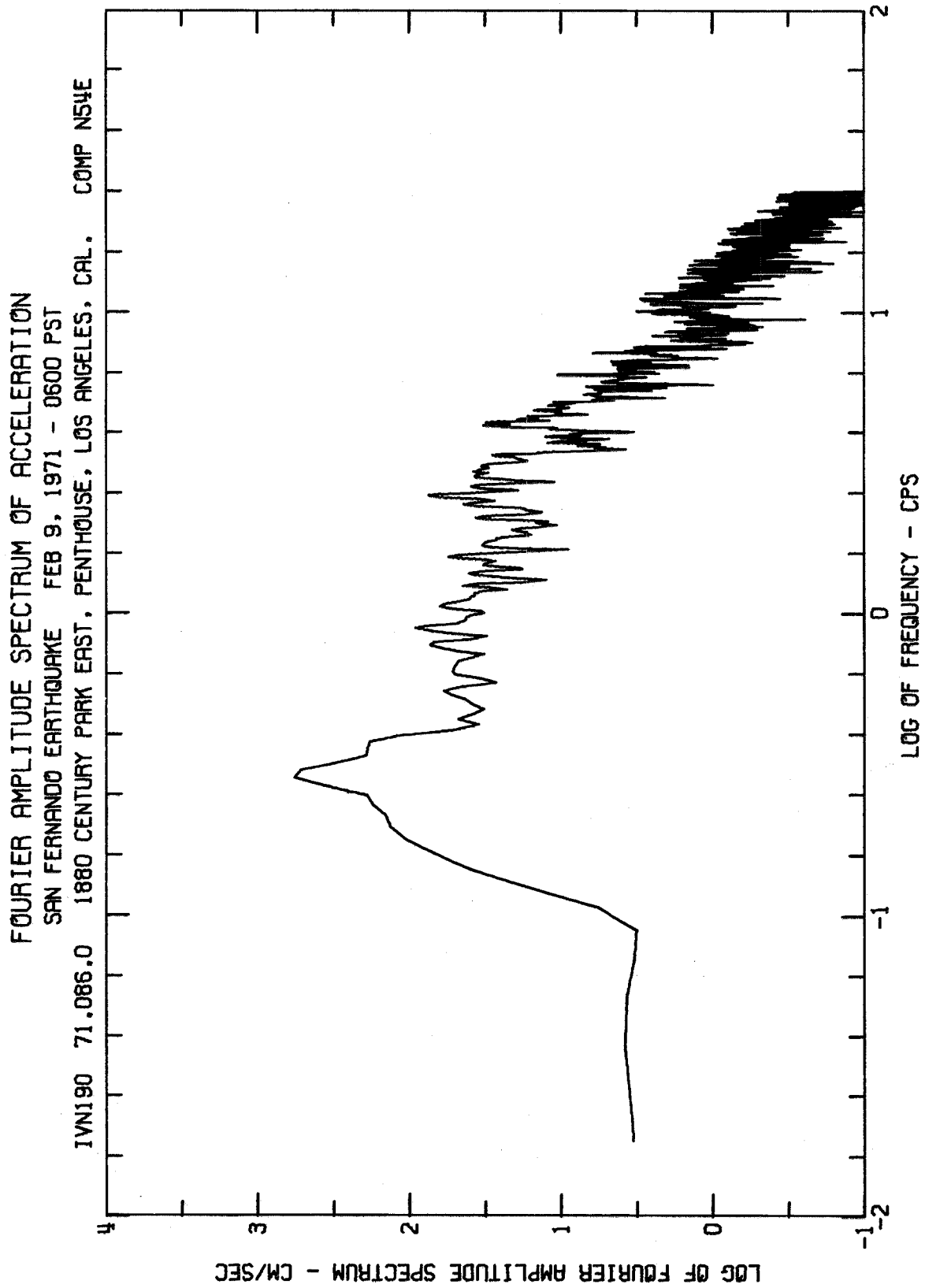
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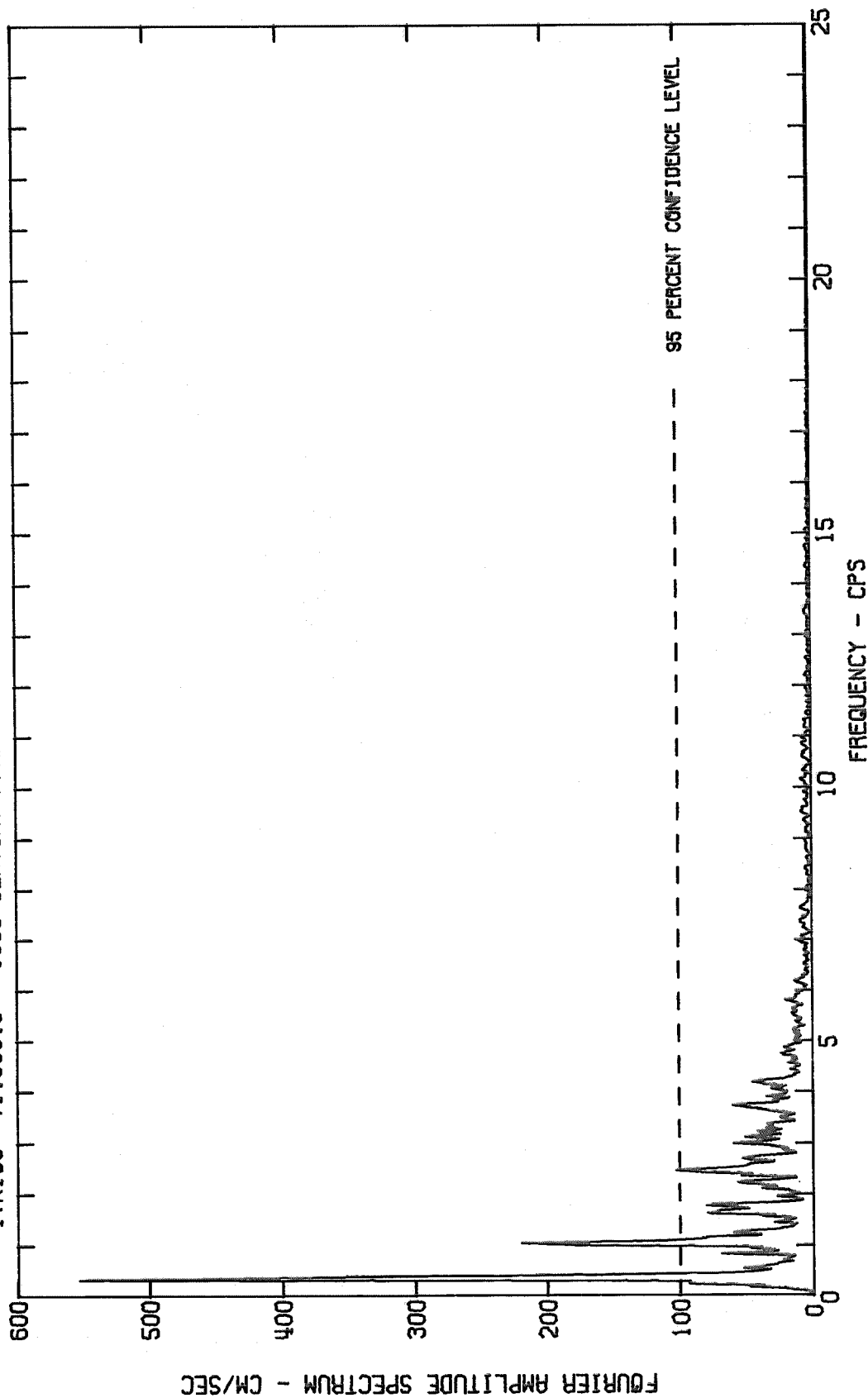




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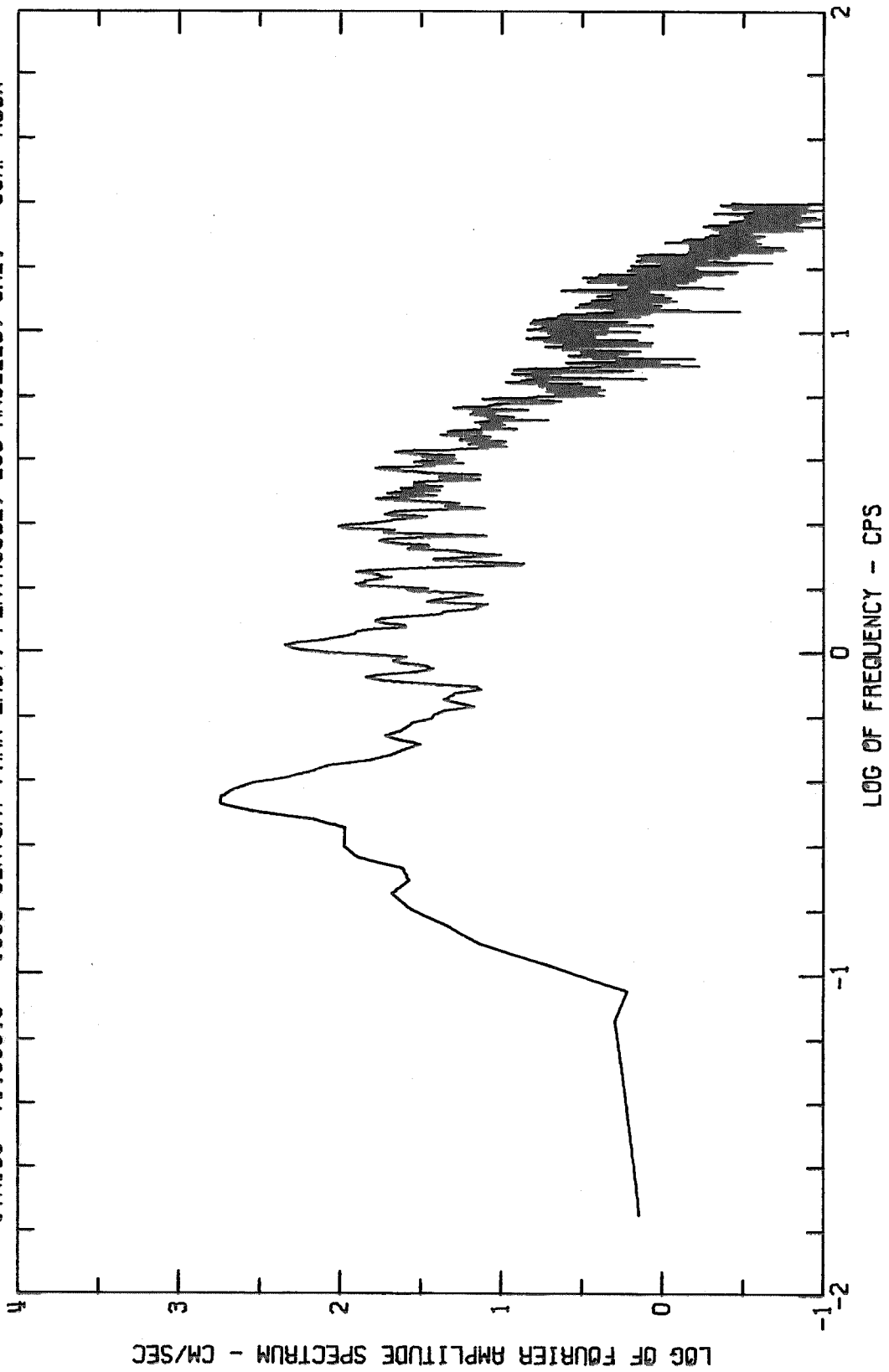
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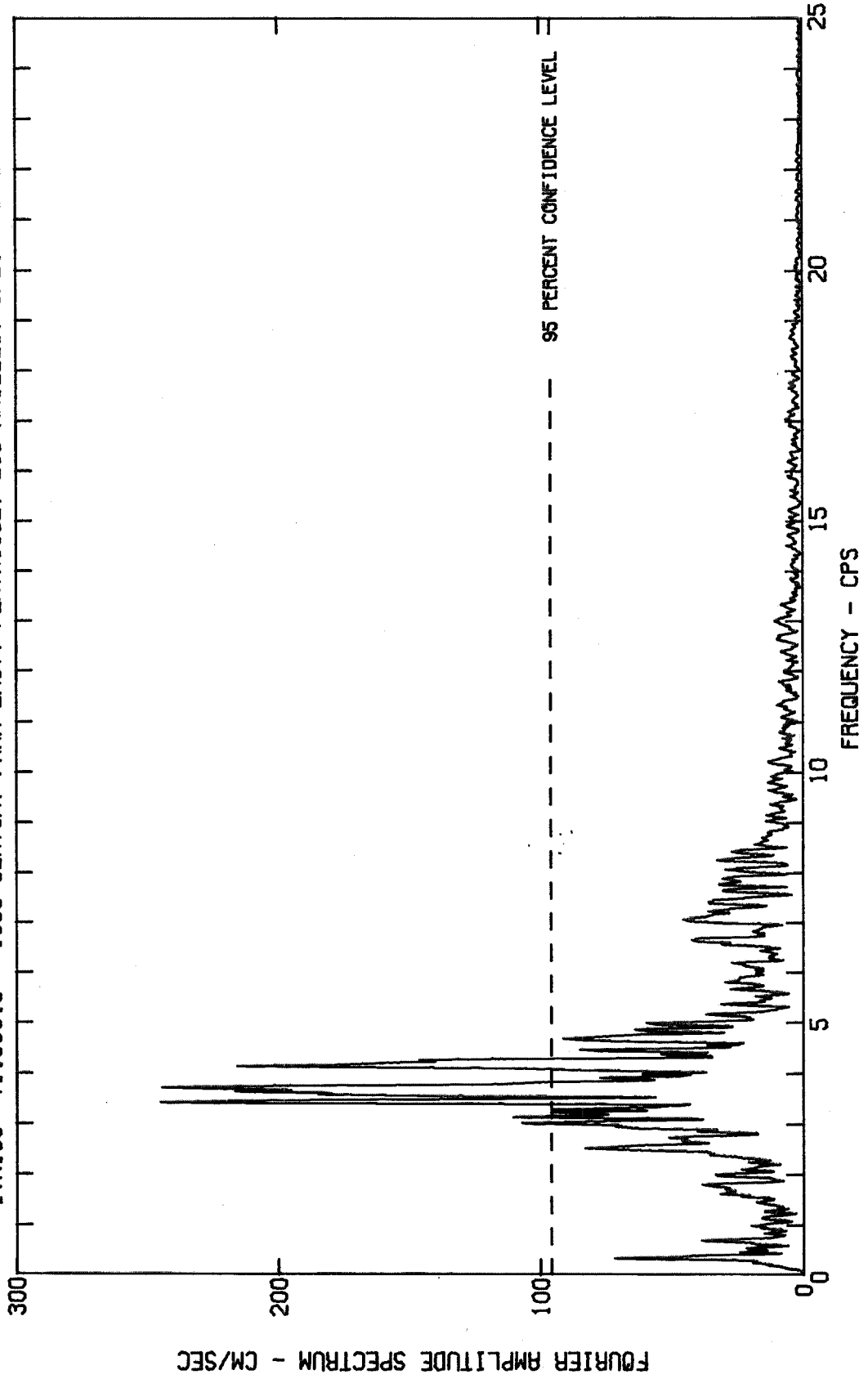
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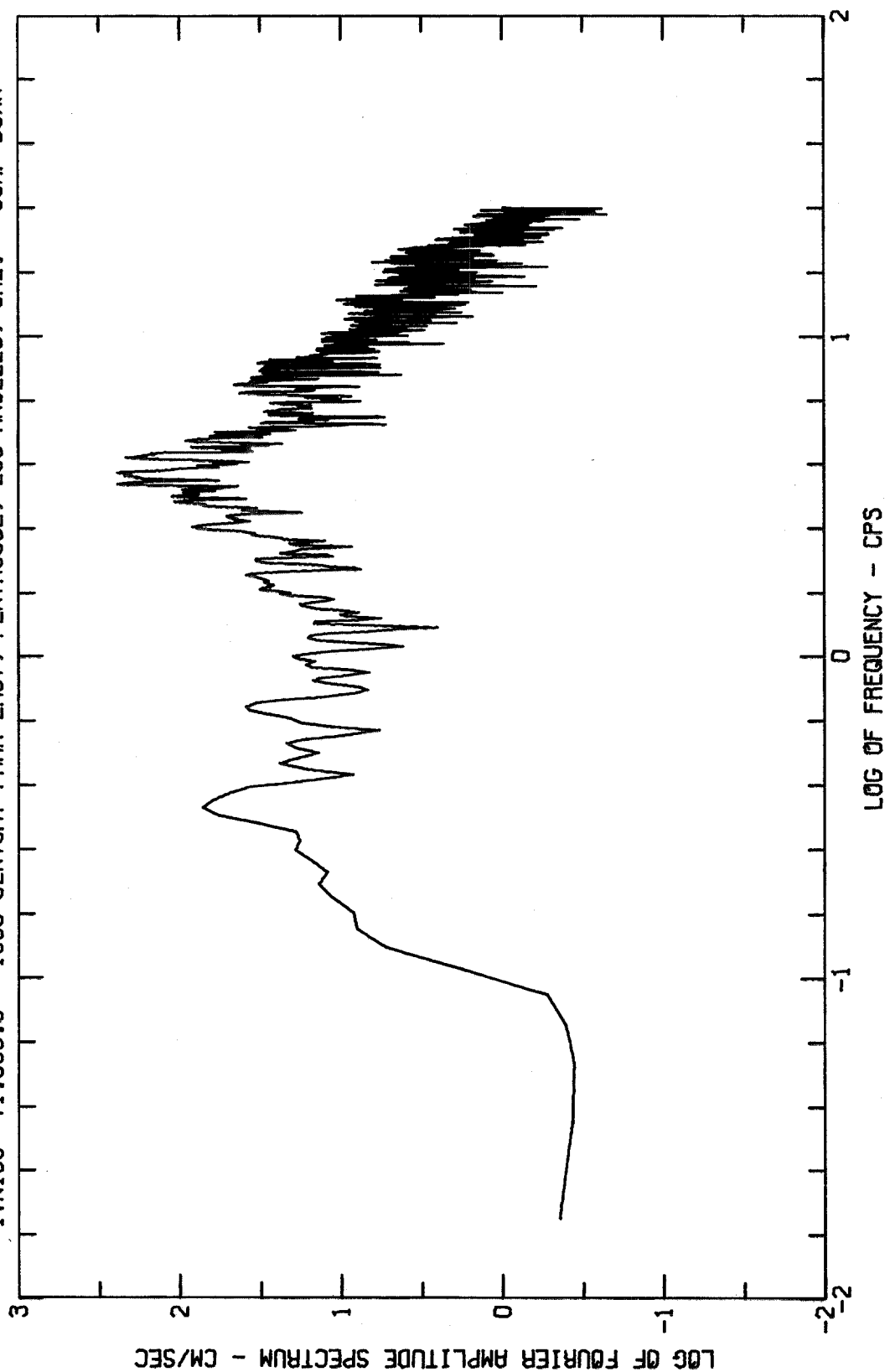
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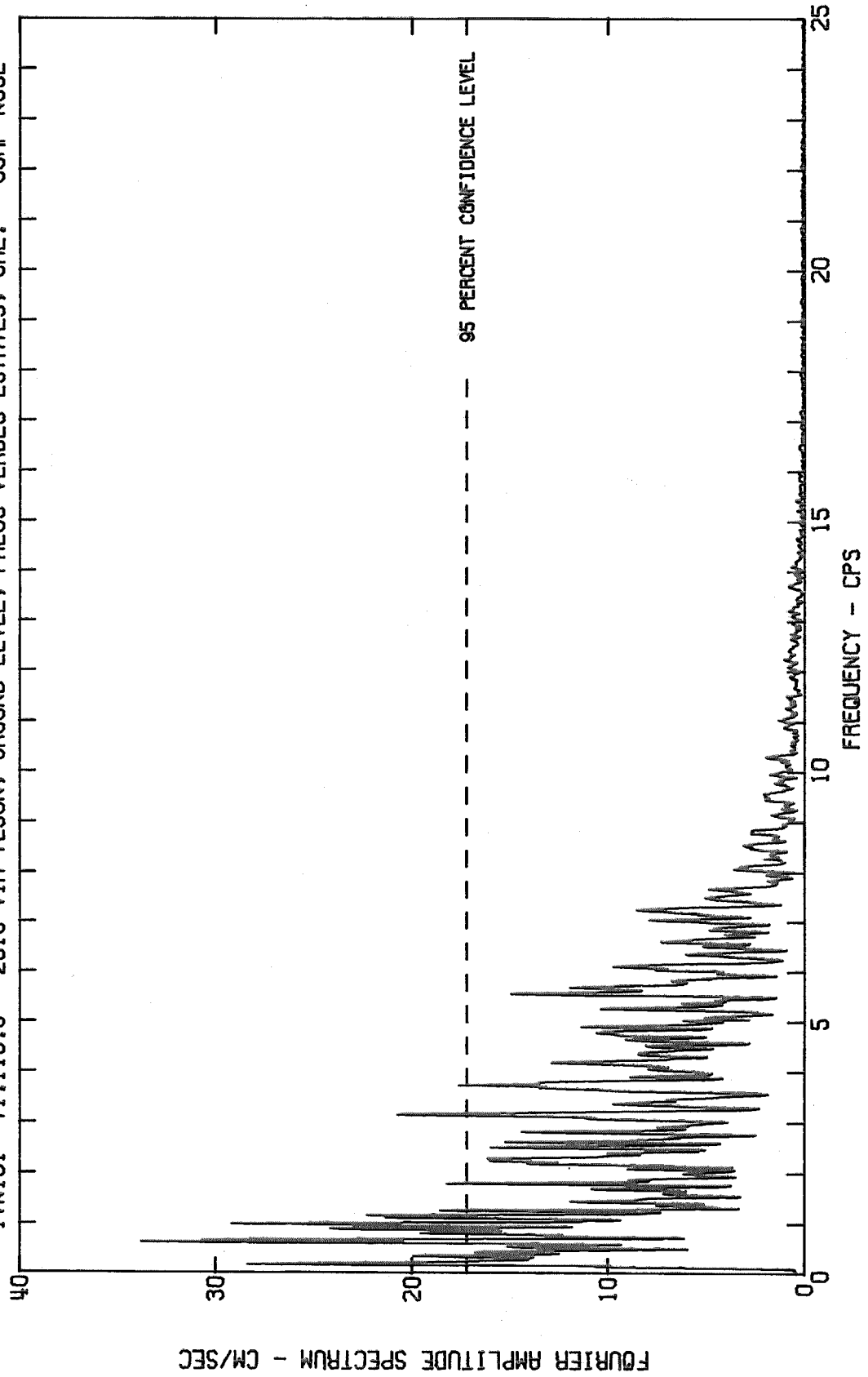
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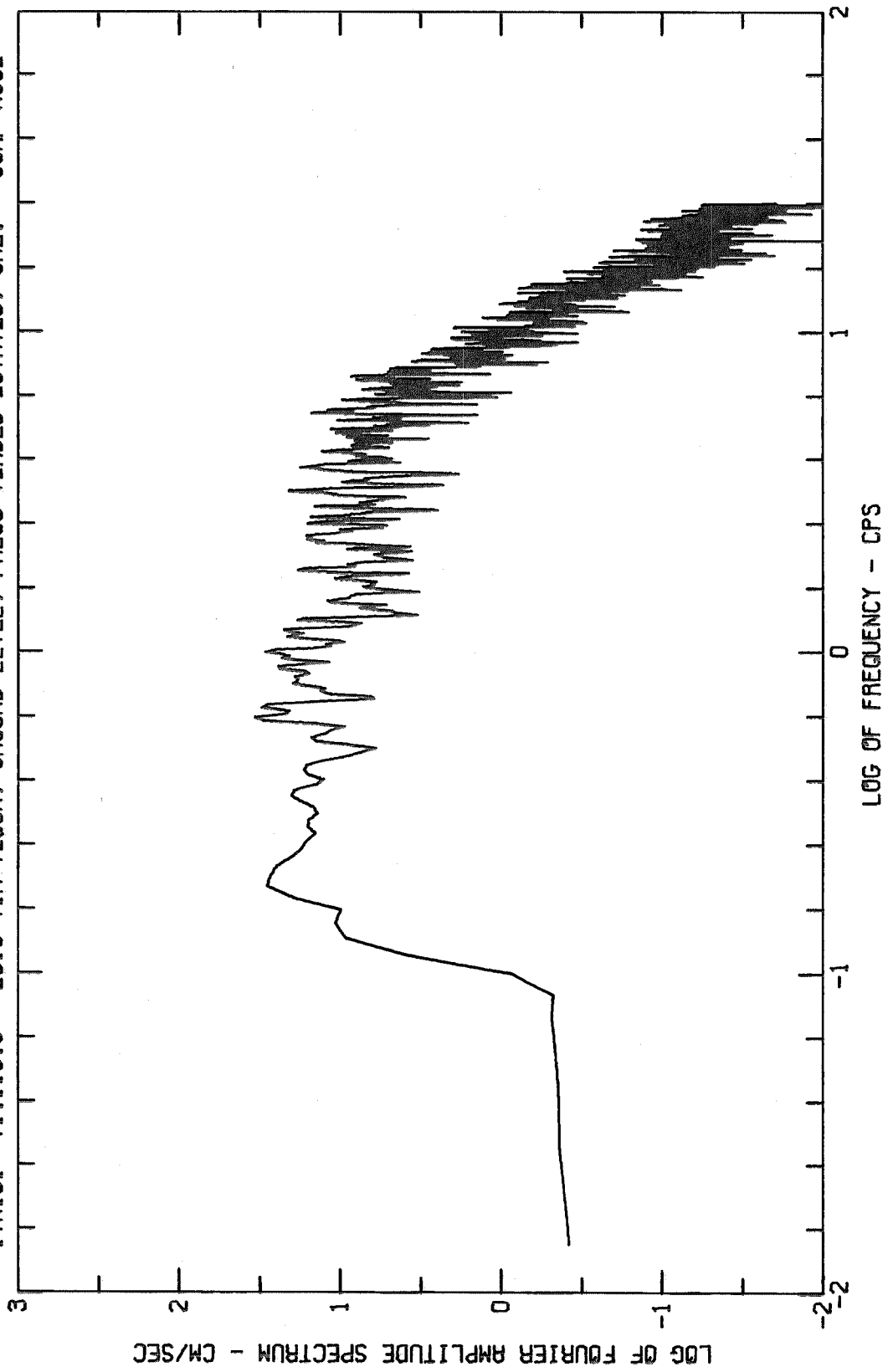
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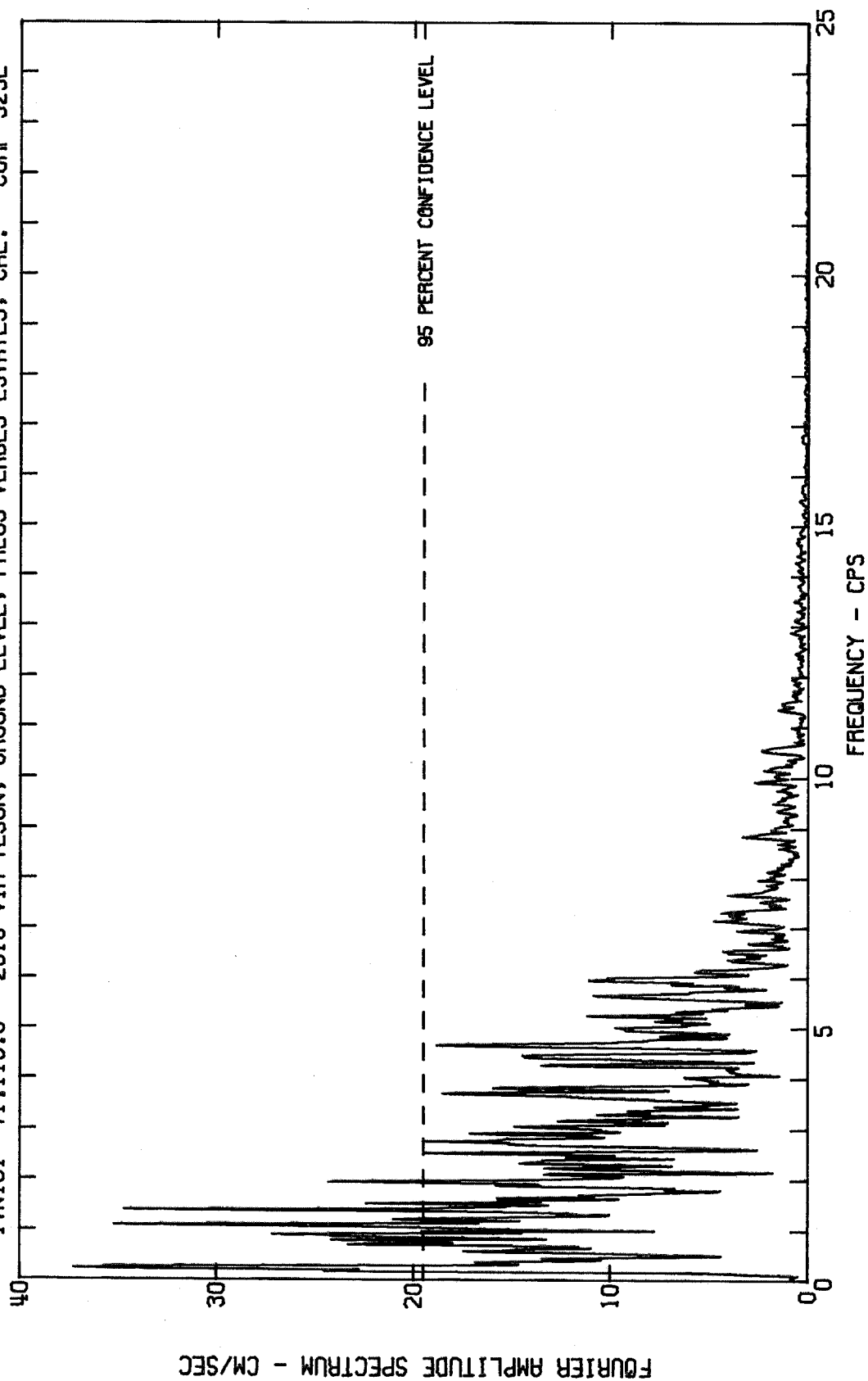
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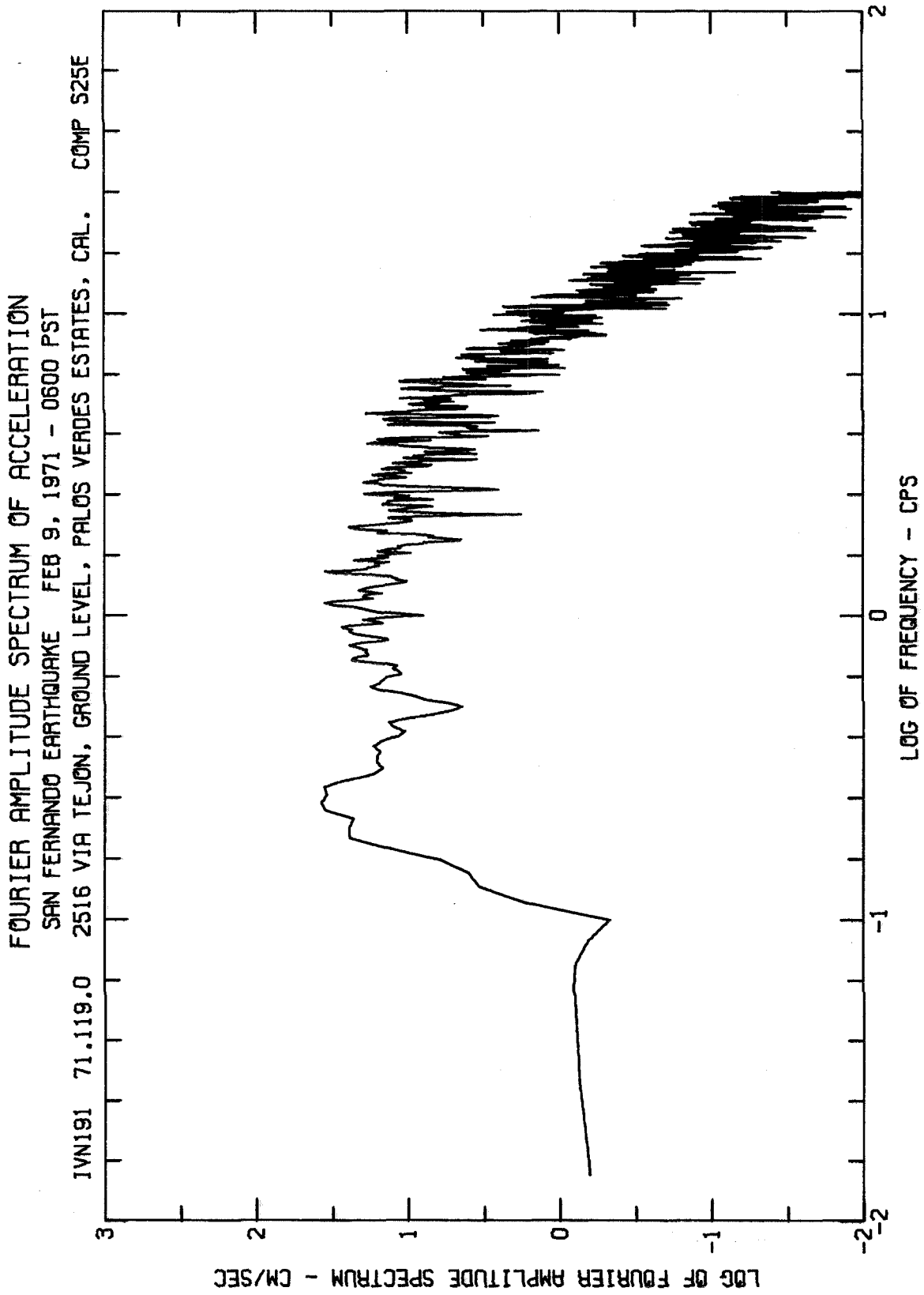


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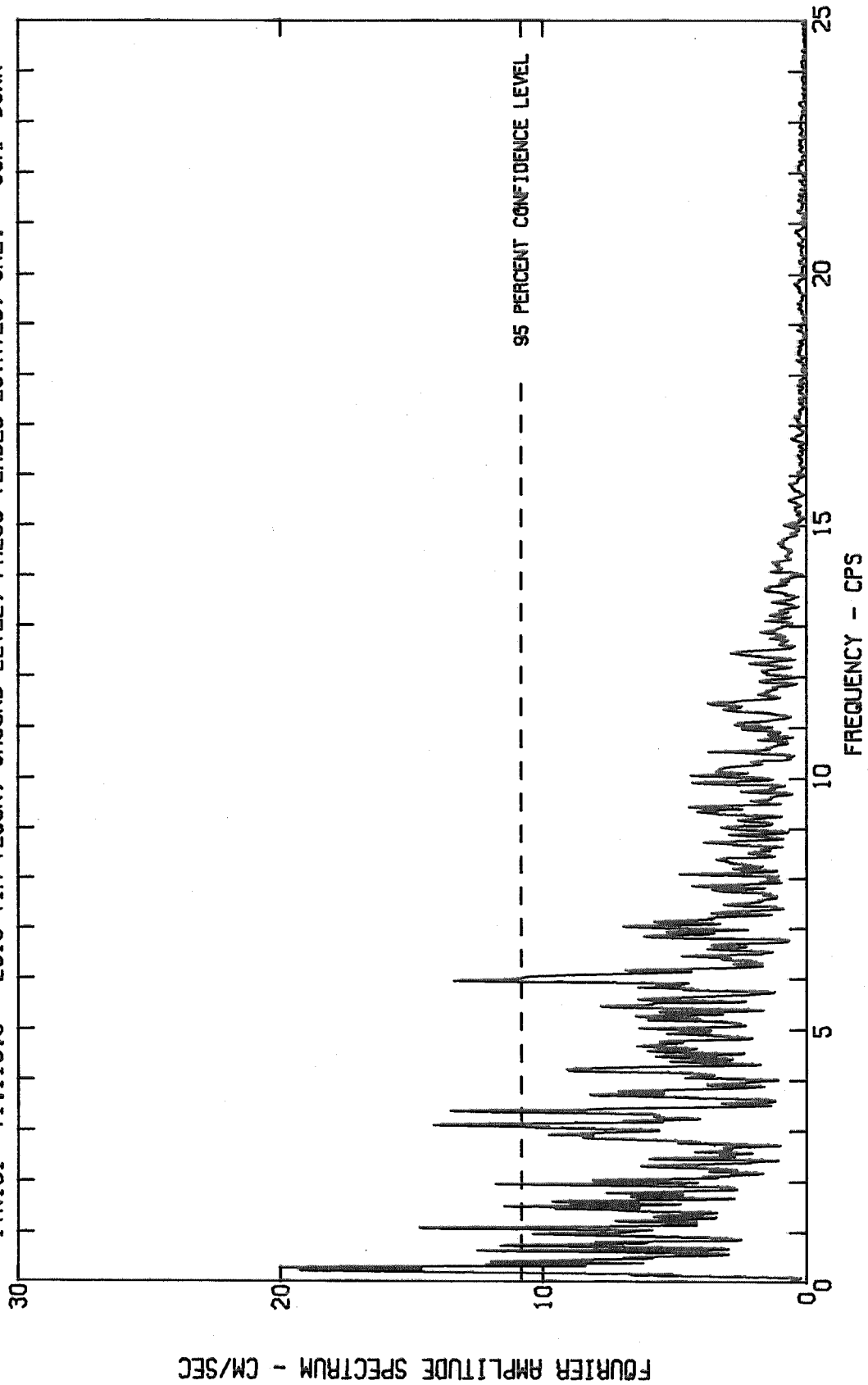




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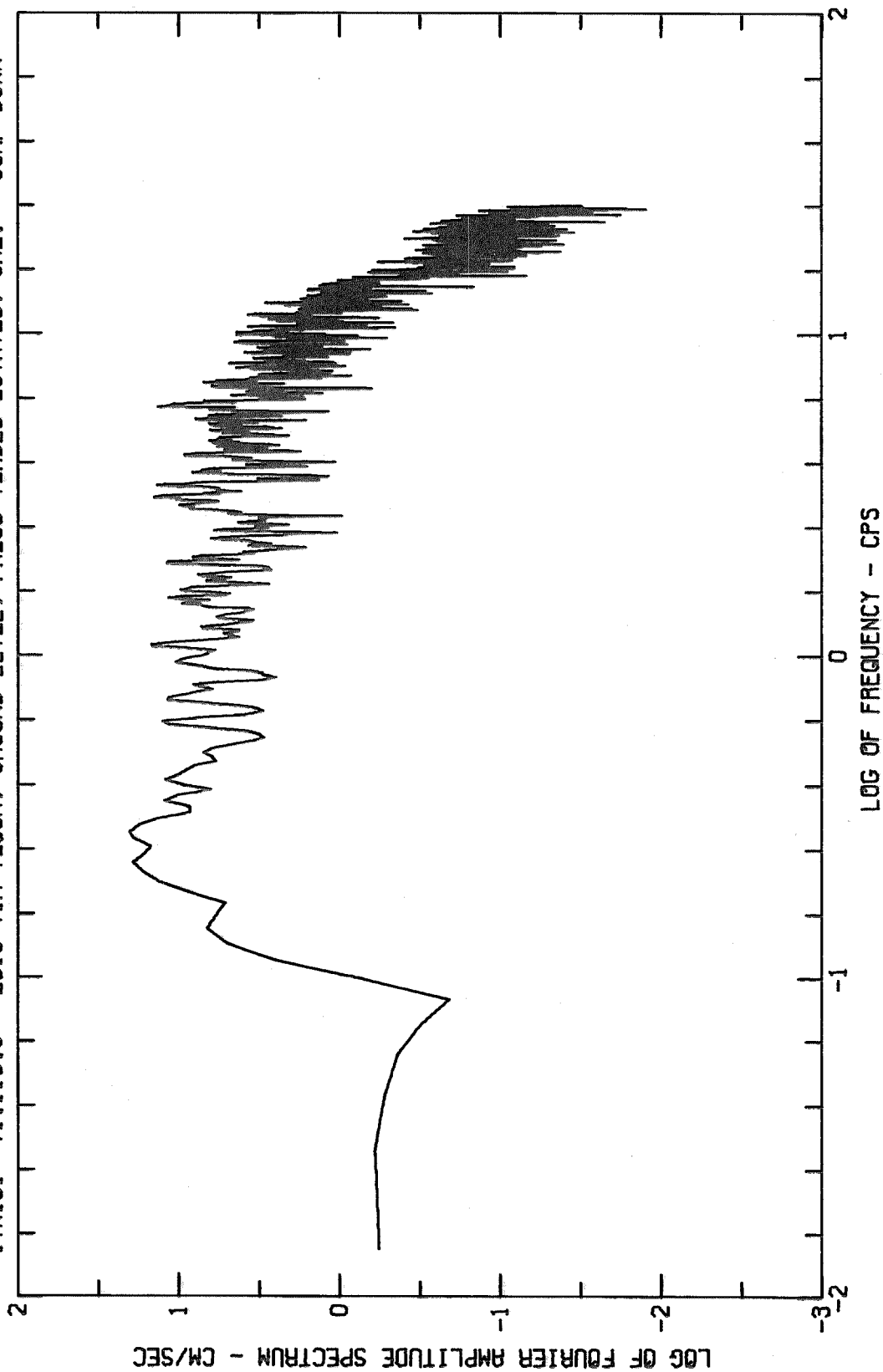
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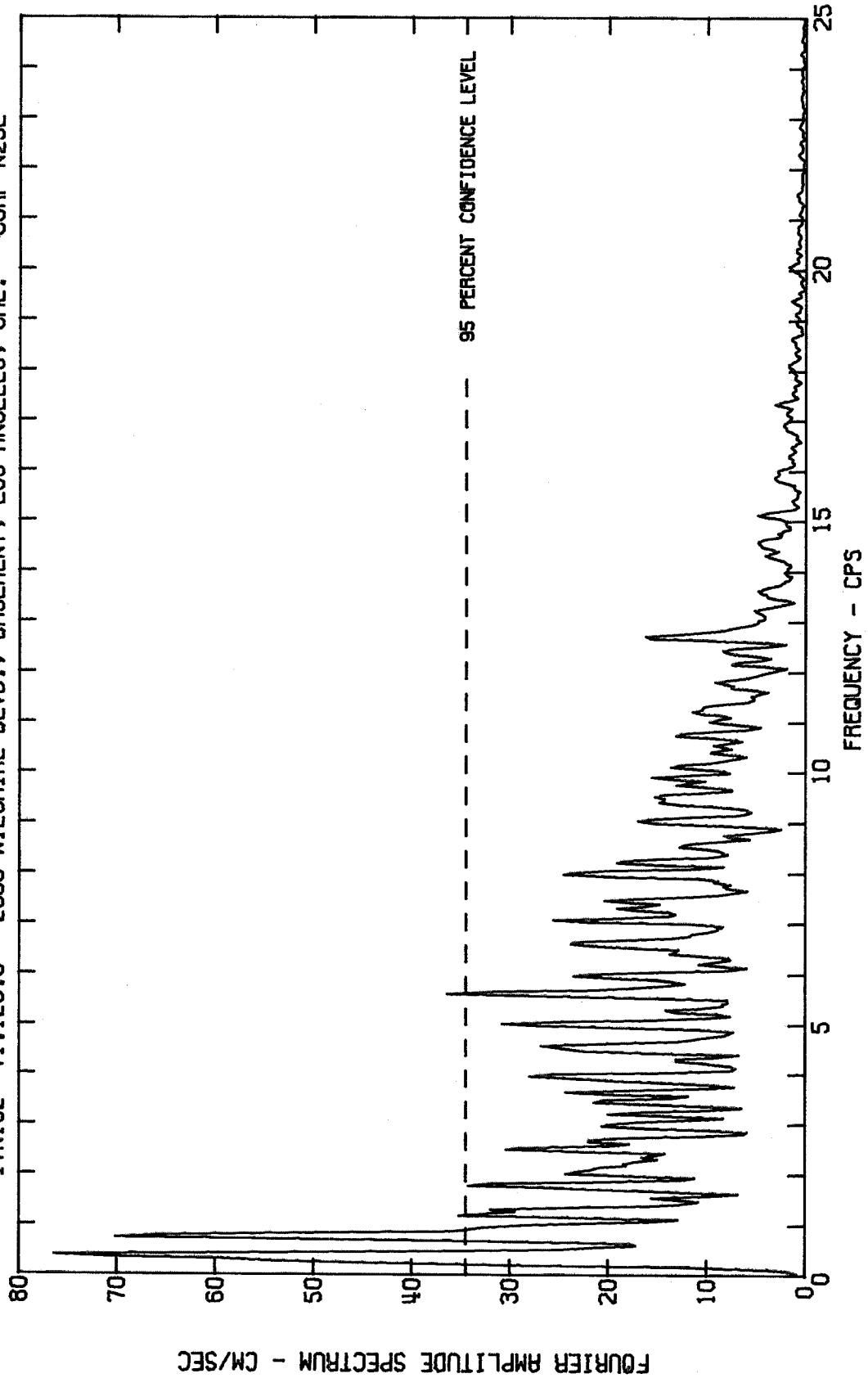
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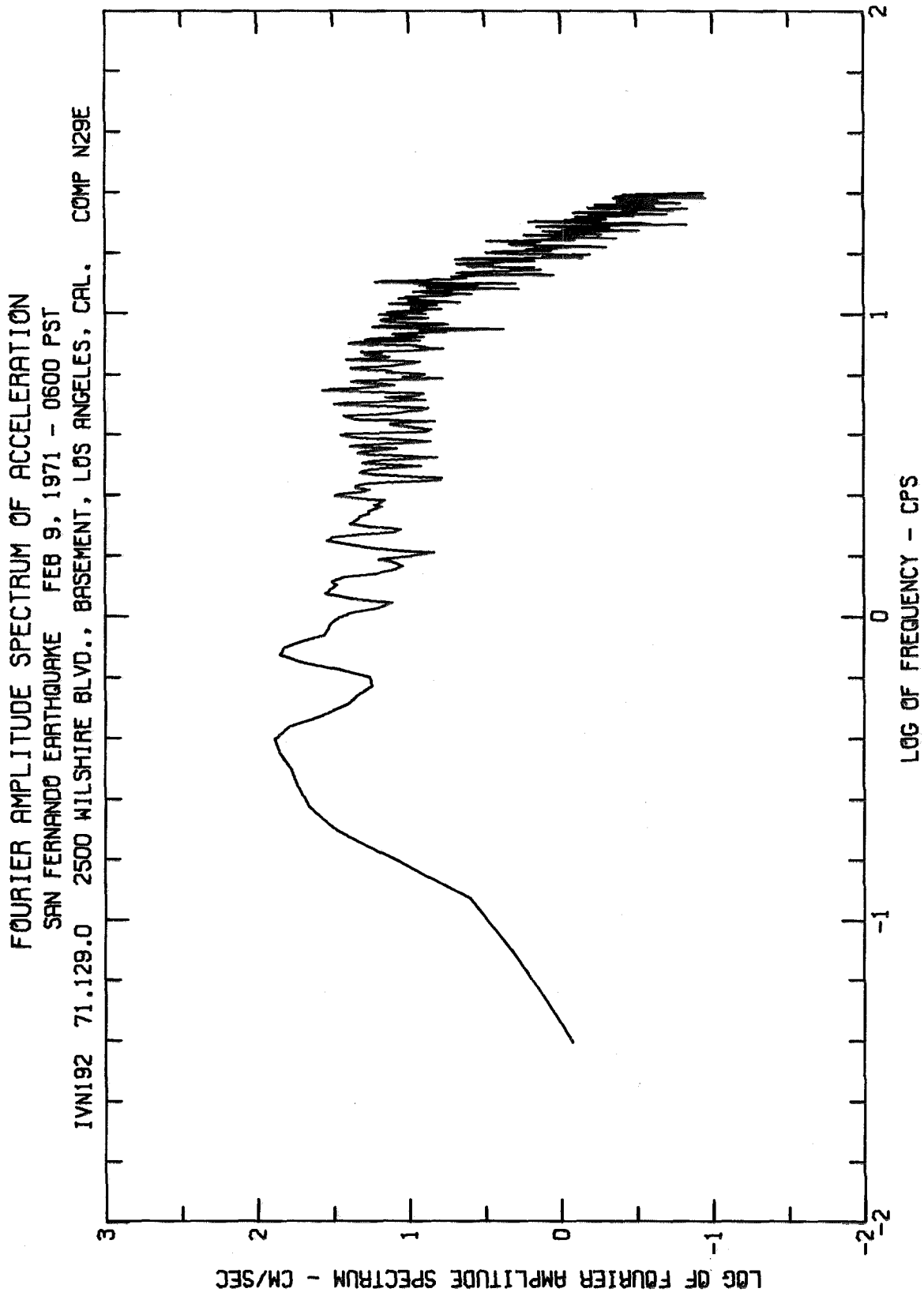


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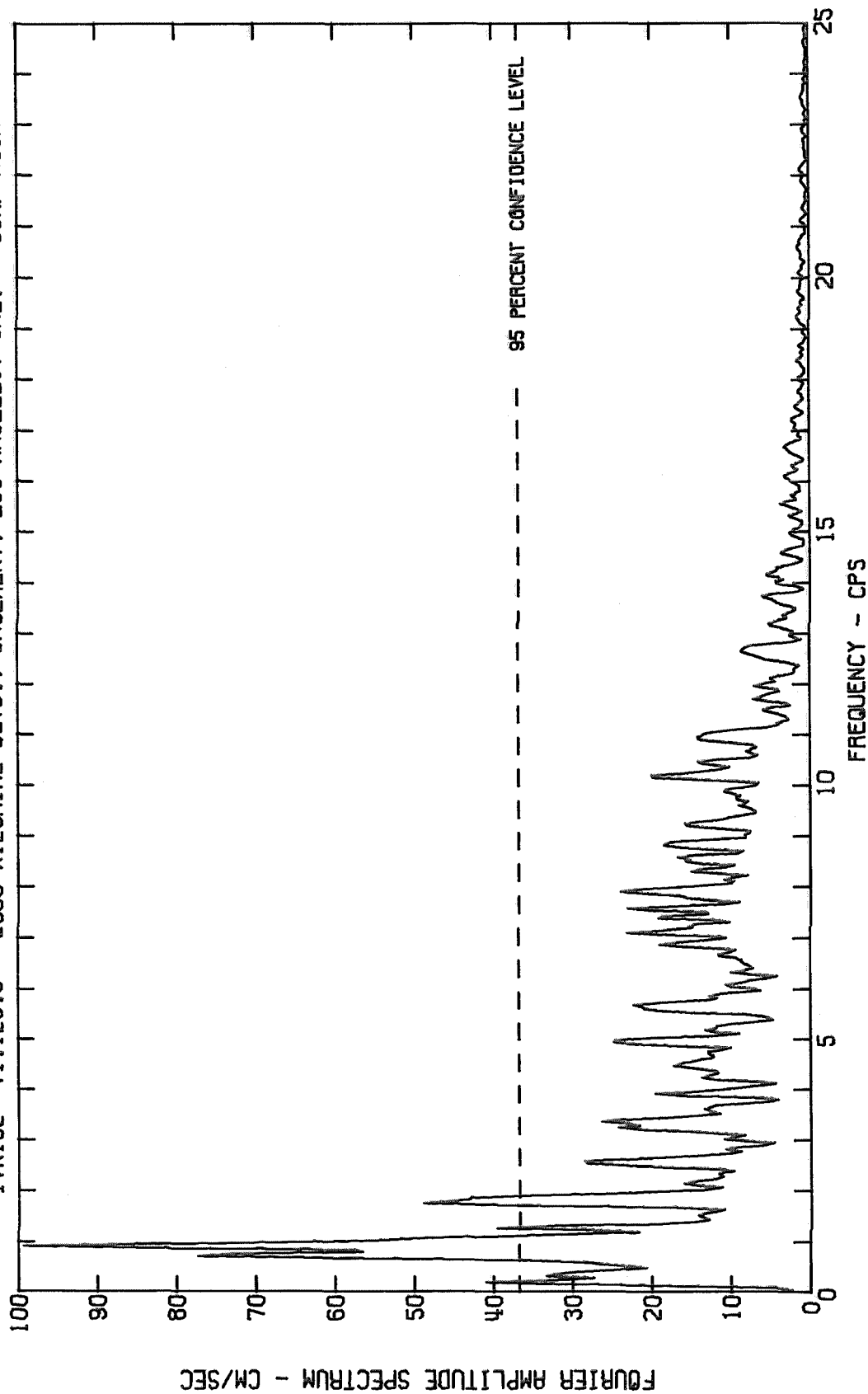




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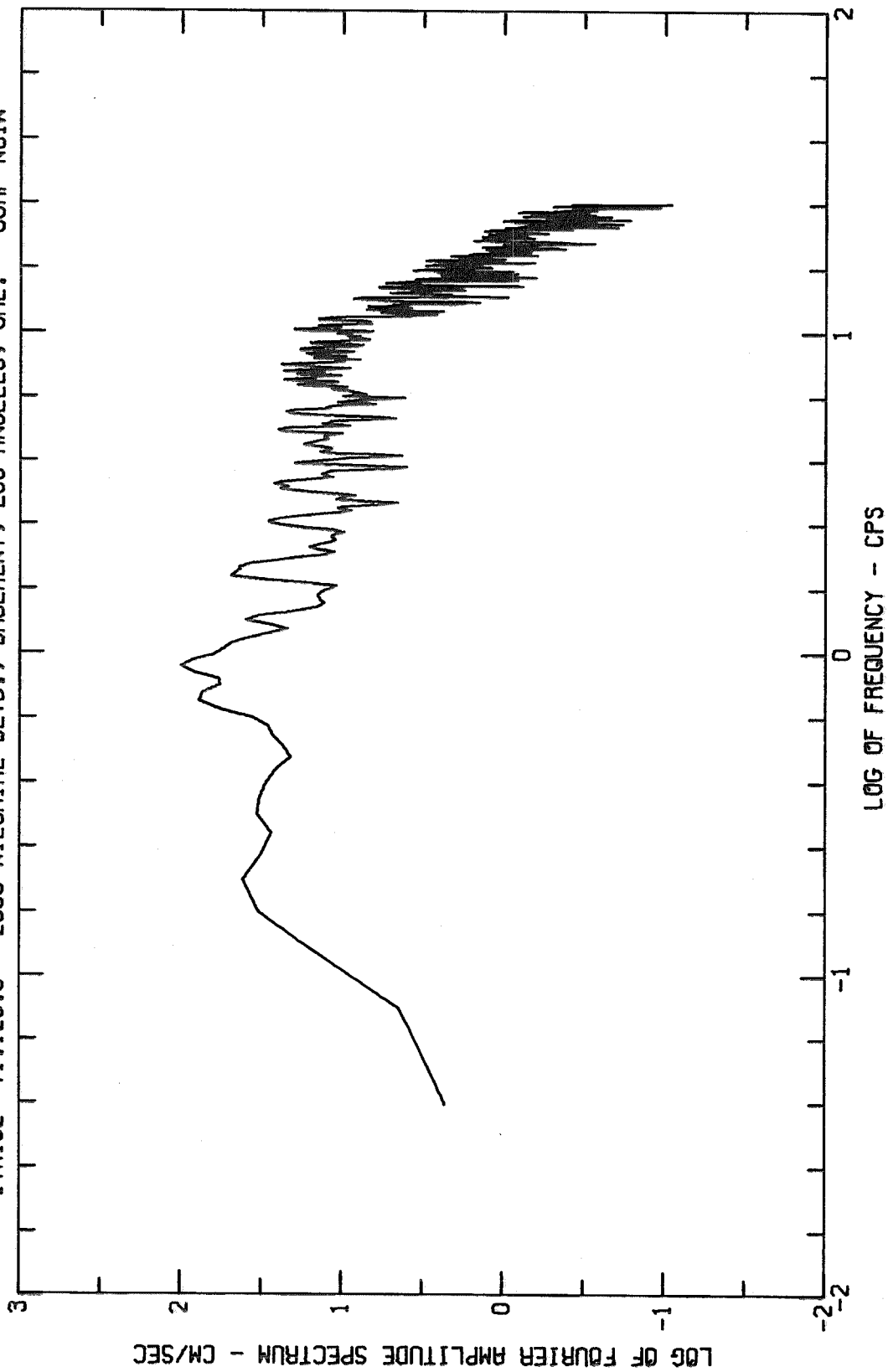
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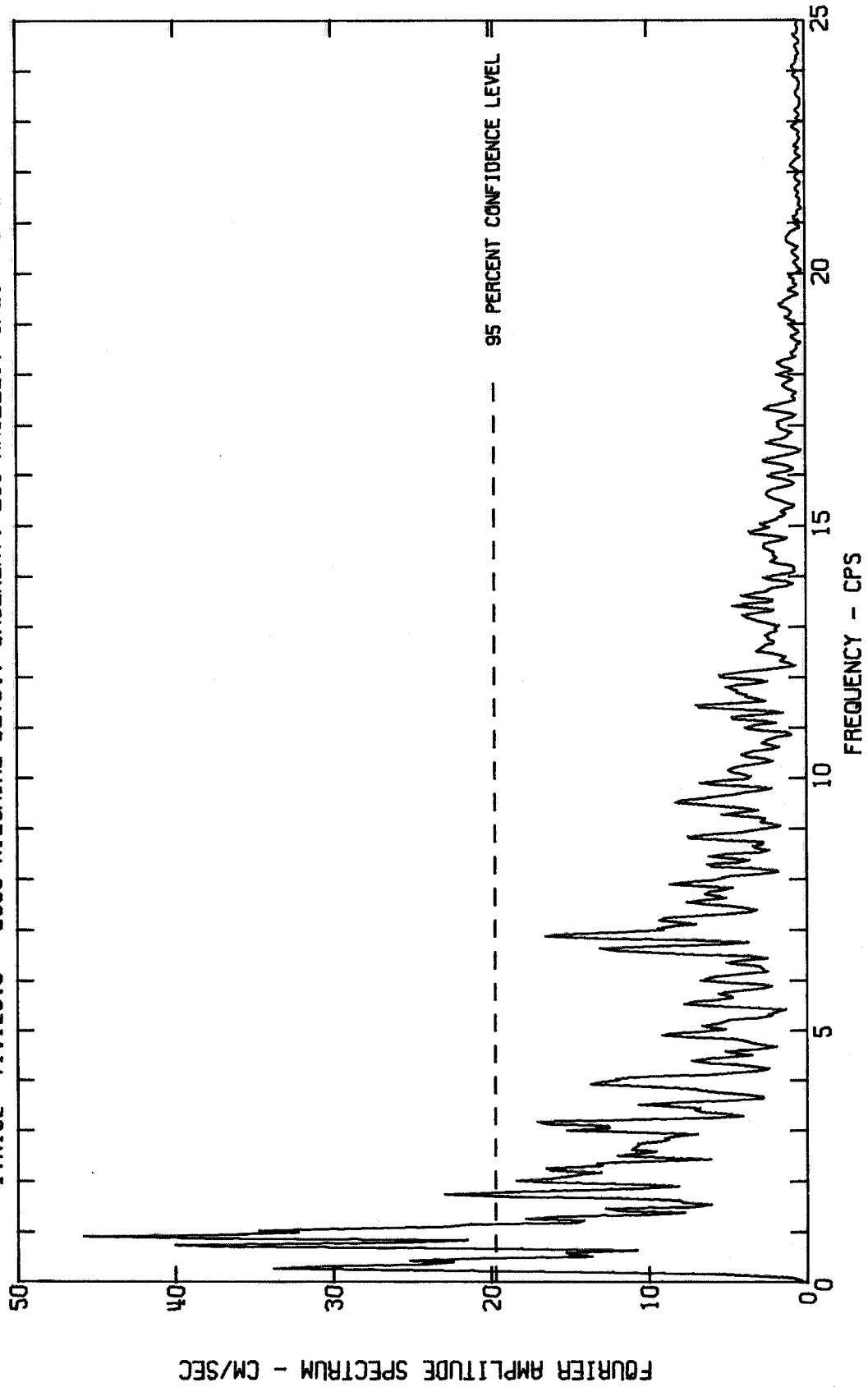
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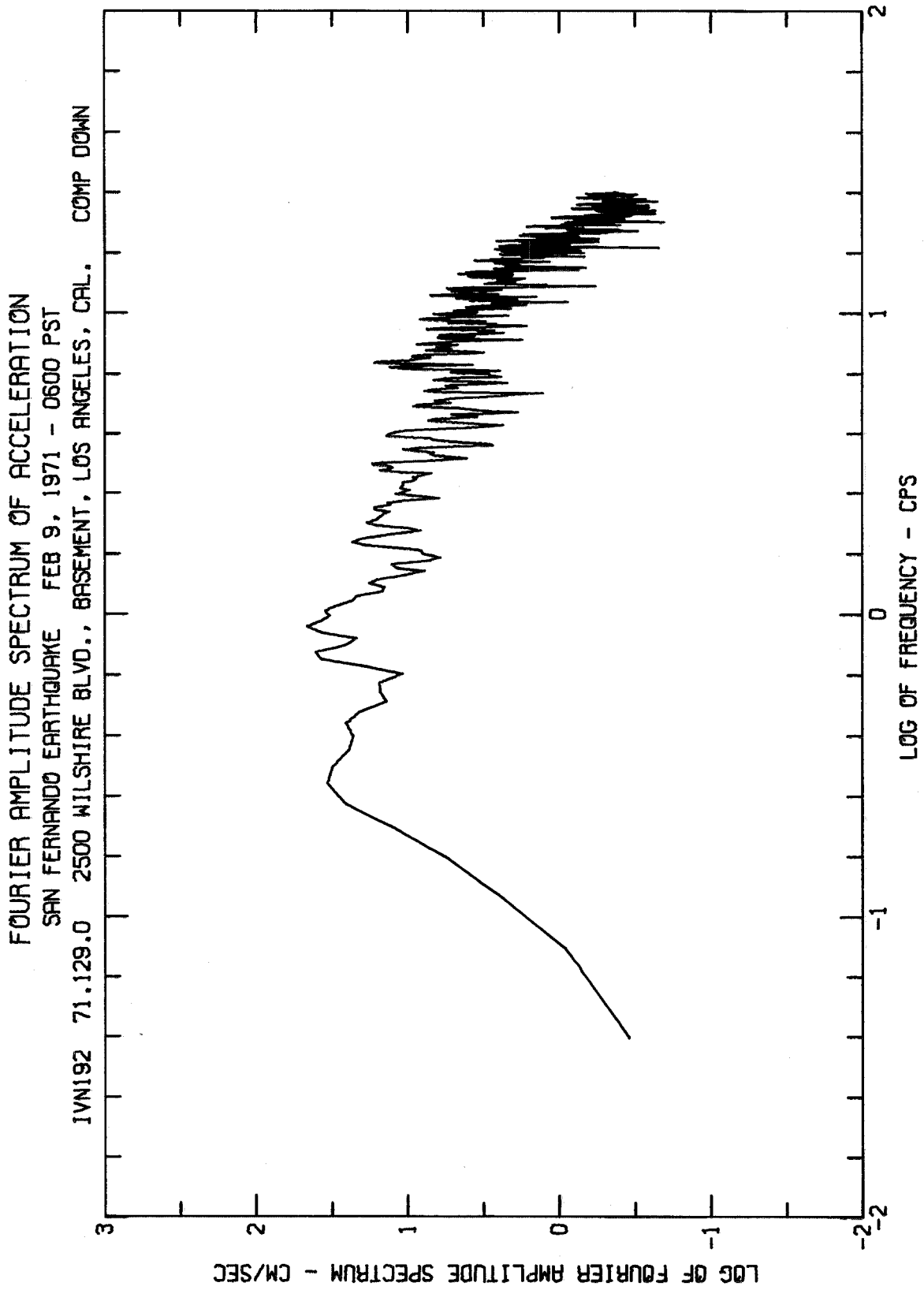


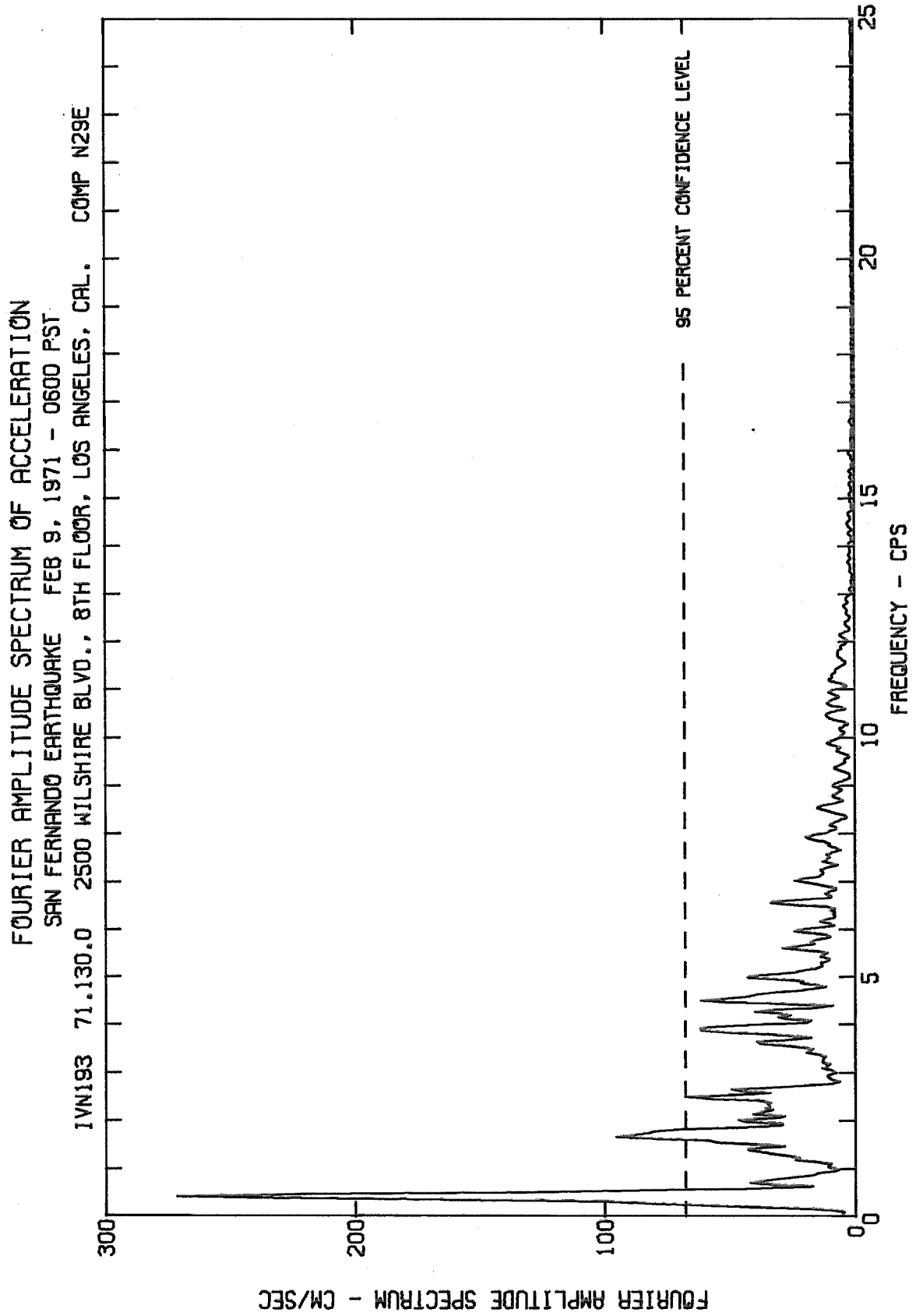
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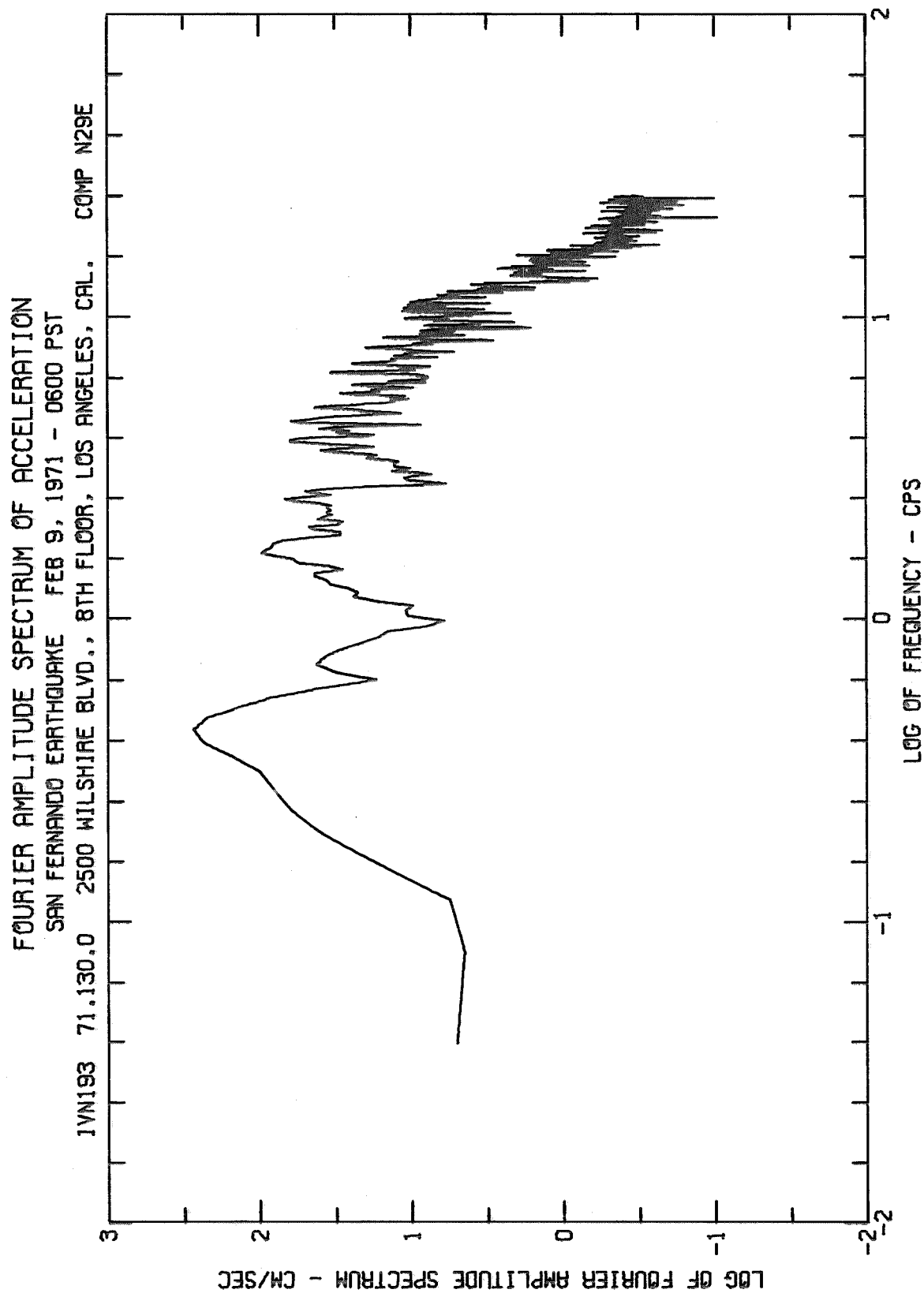
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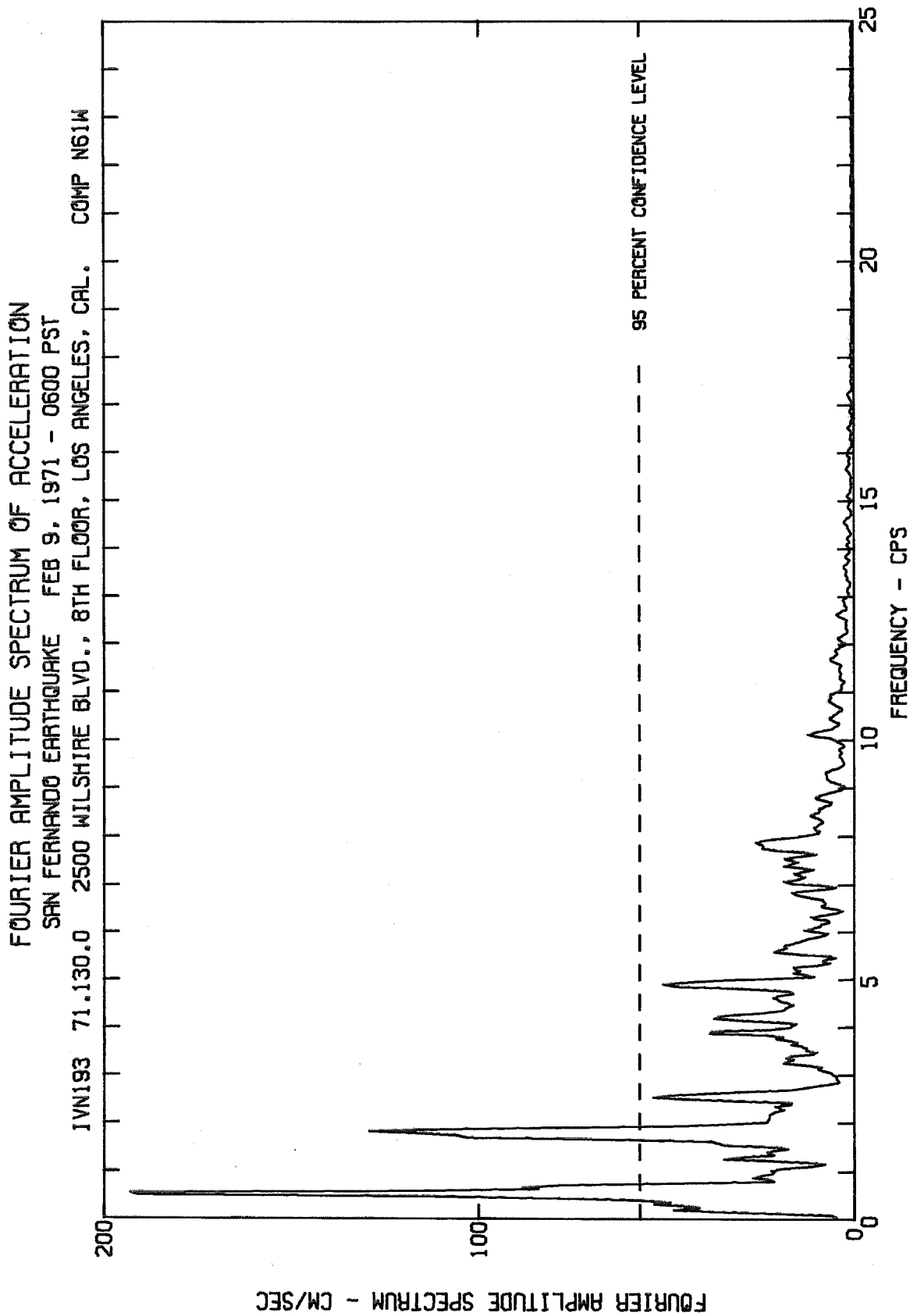
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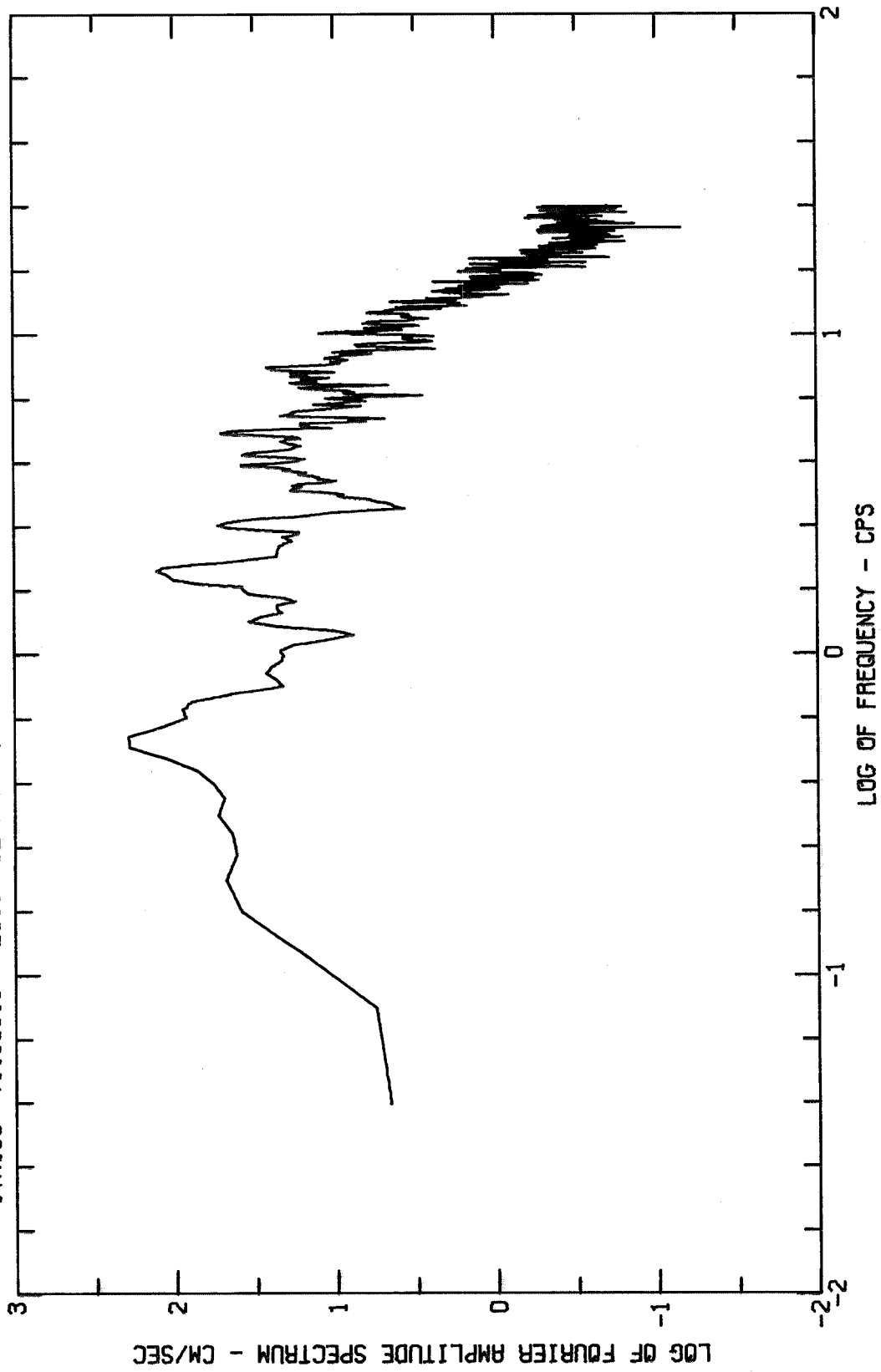




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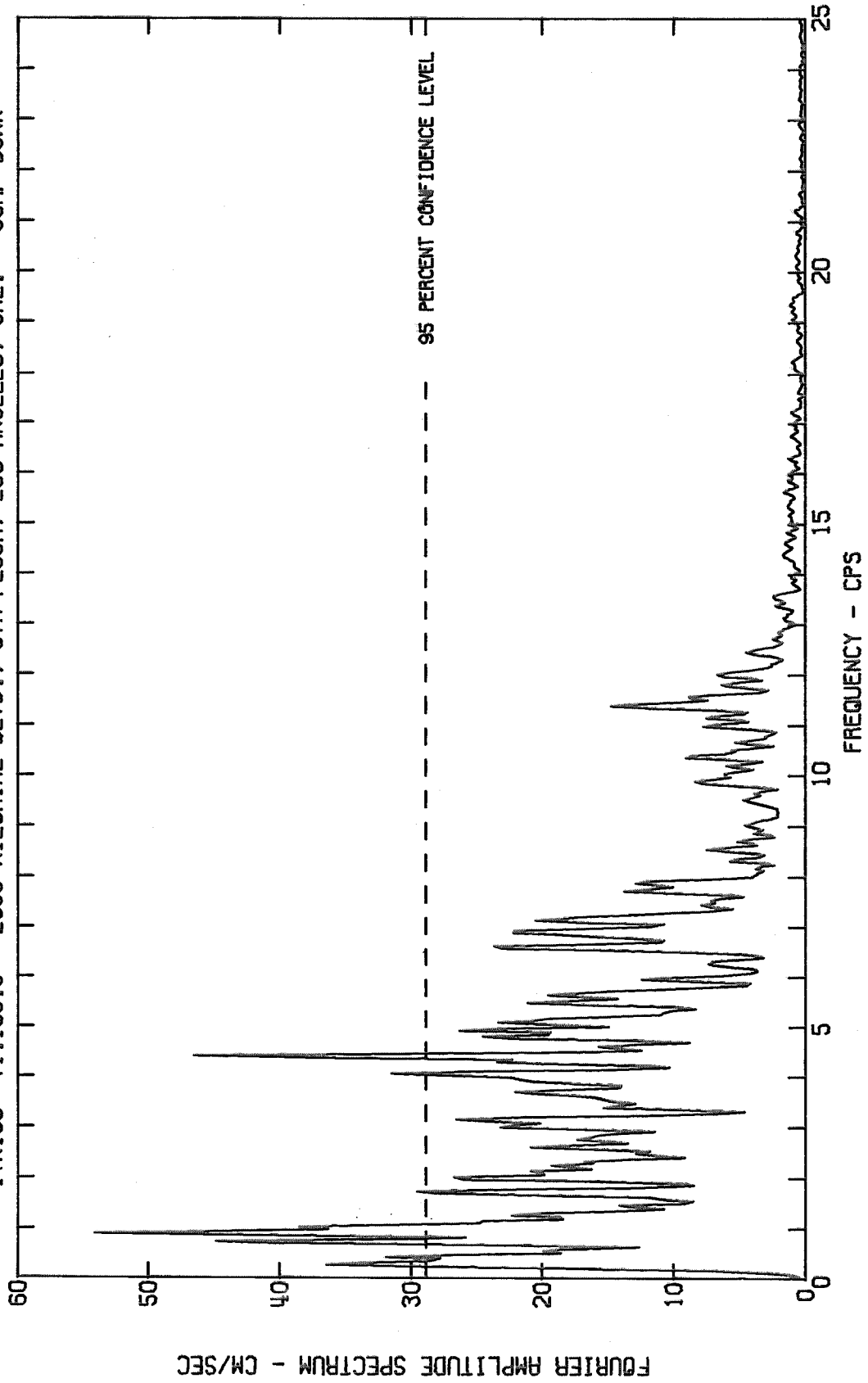
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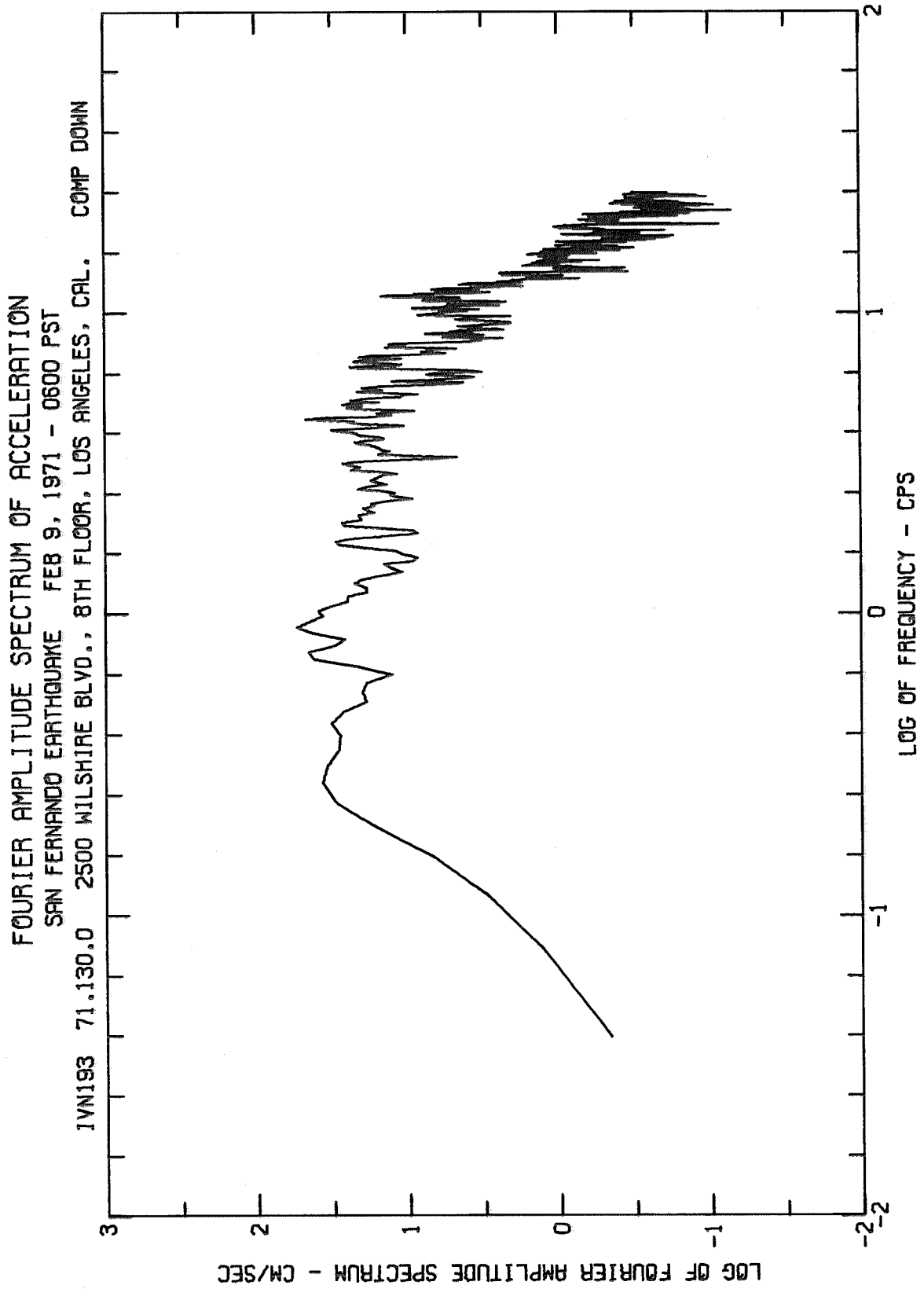


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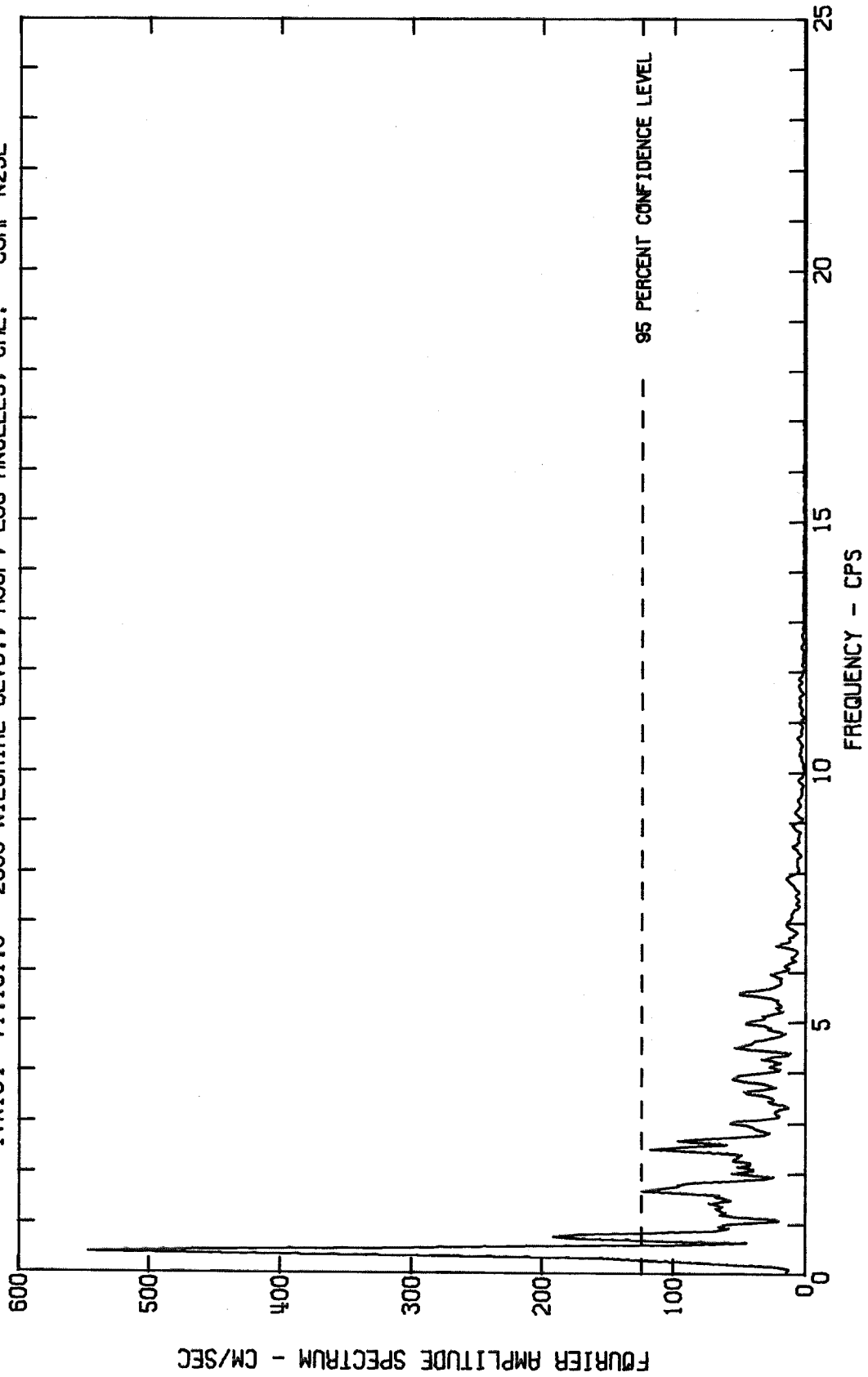




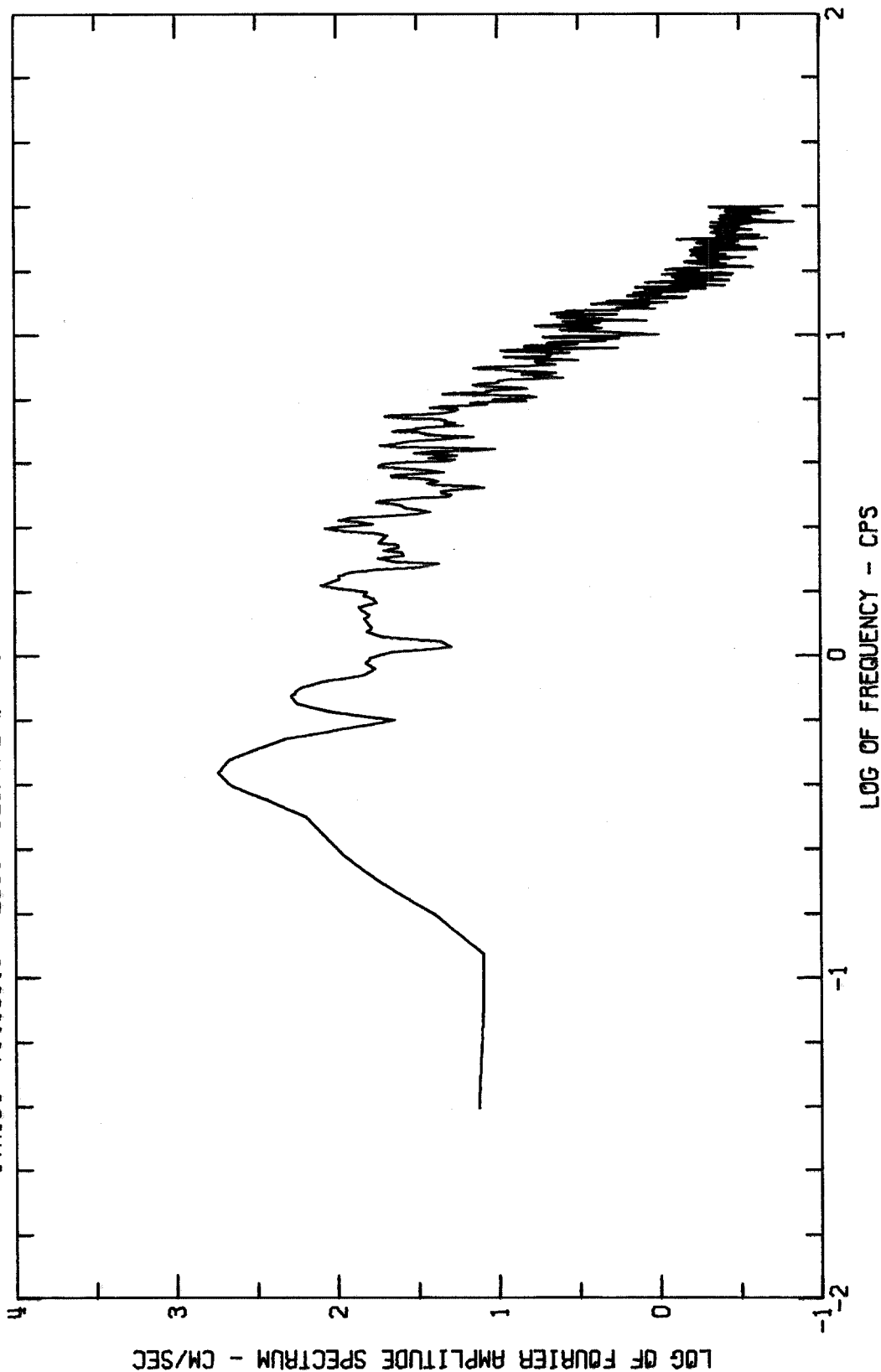
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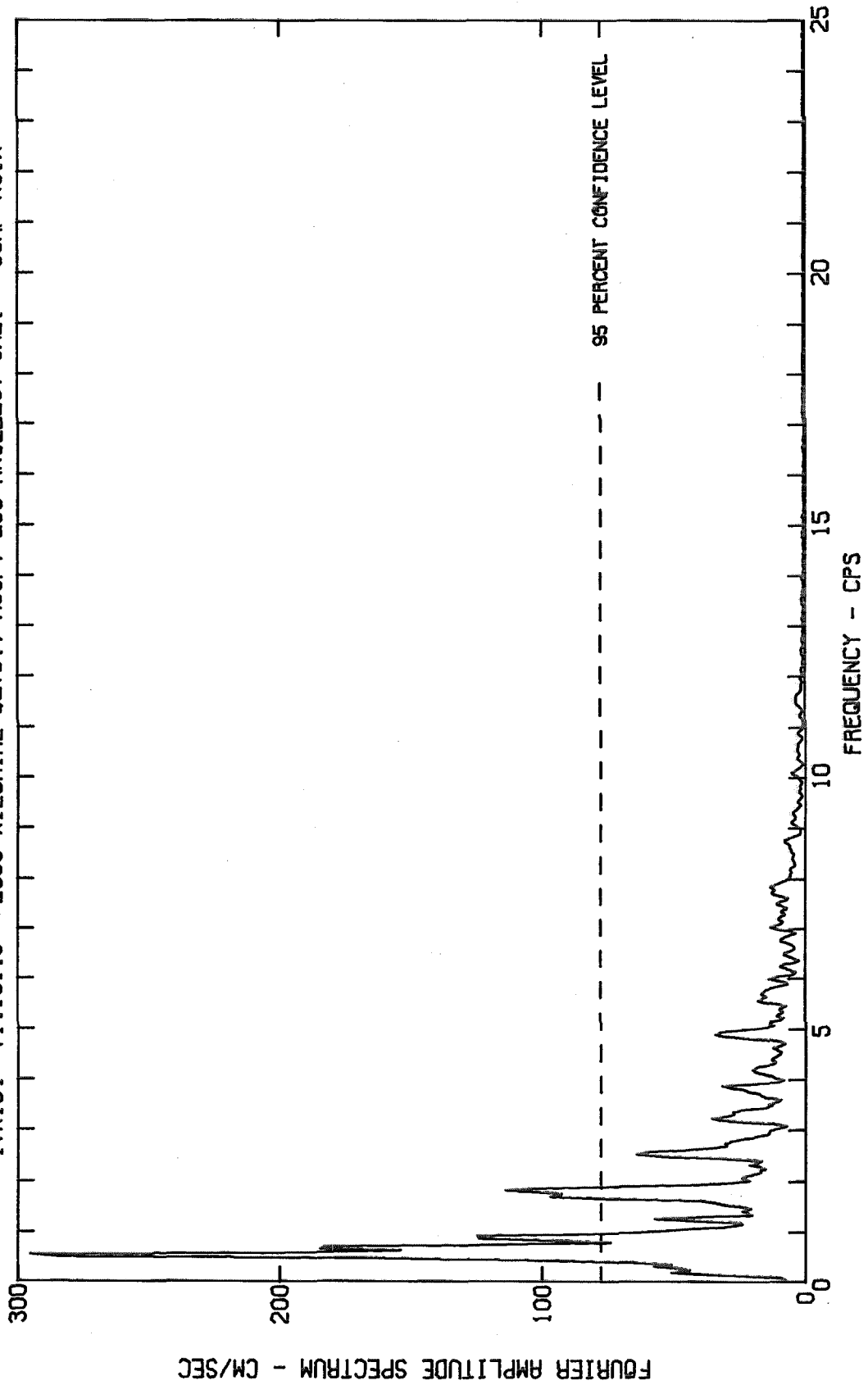
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FOURIER AMPLITUDE SPECTRUM OF ACCELERATION

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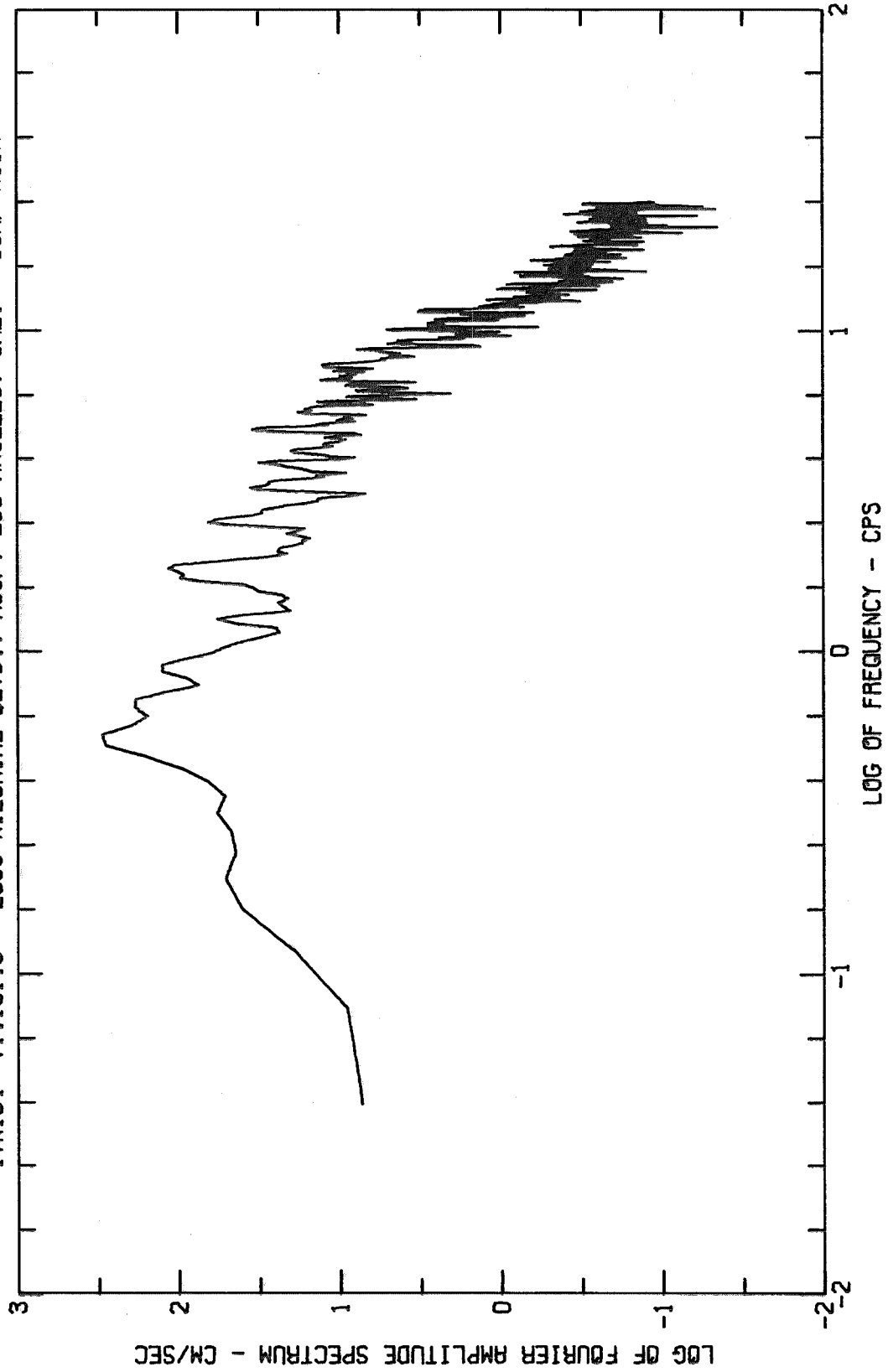
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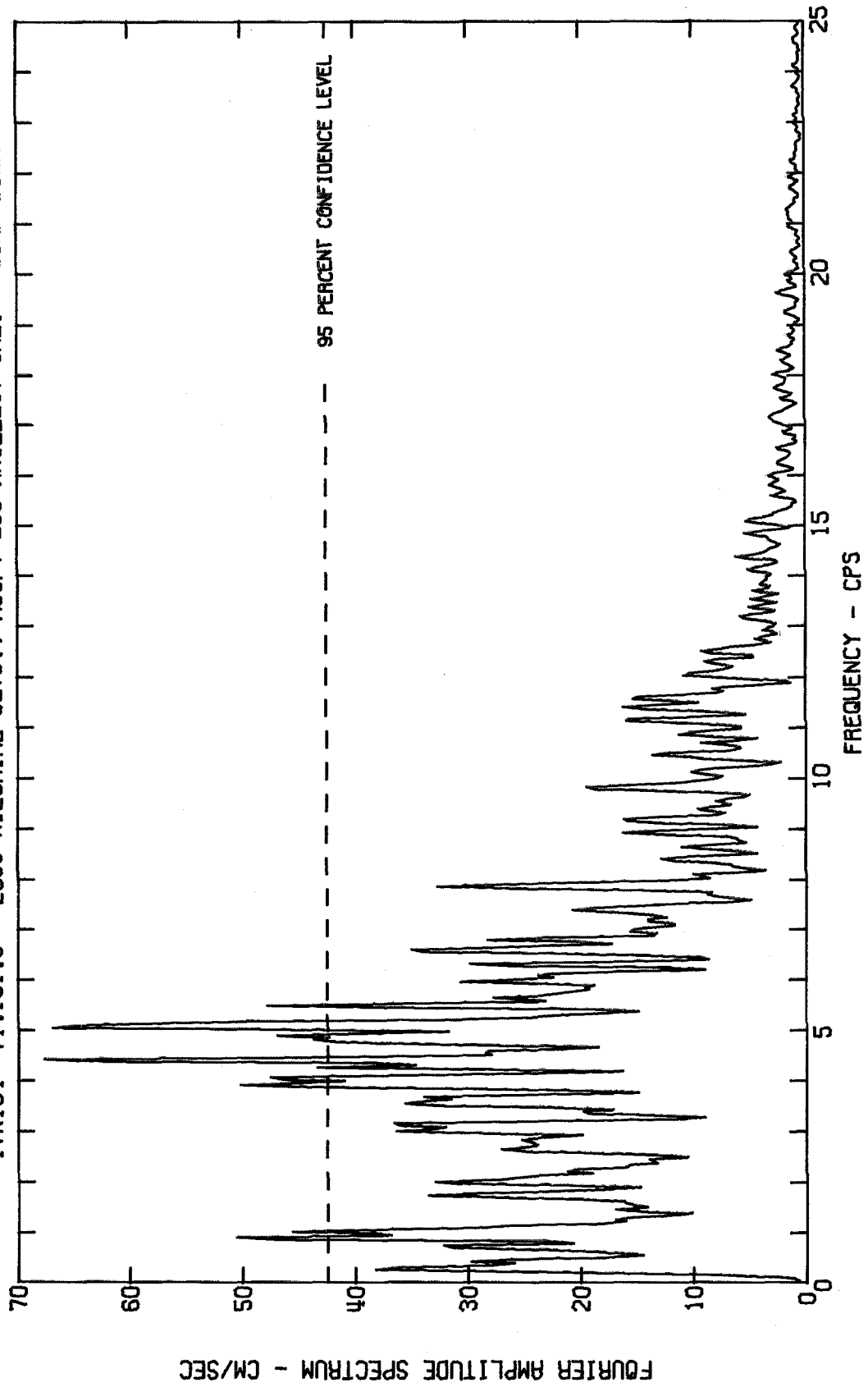
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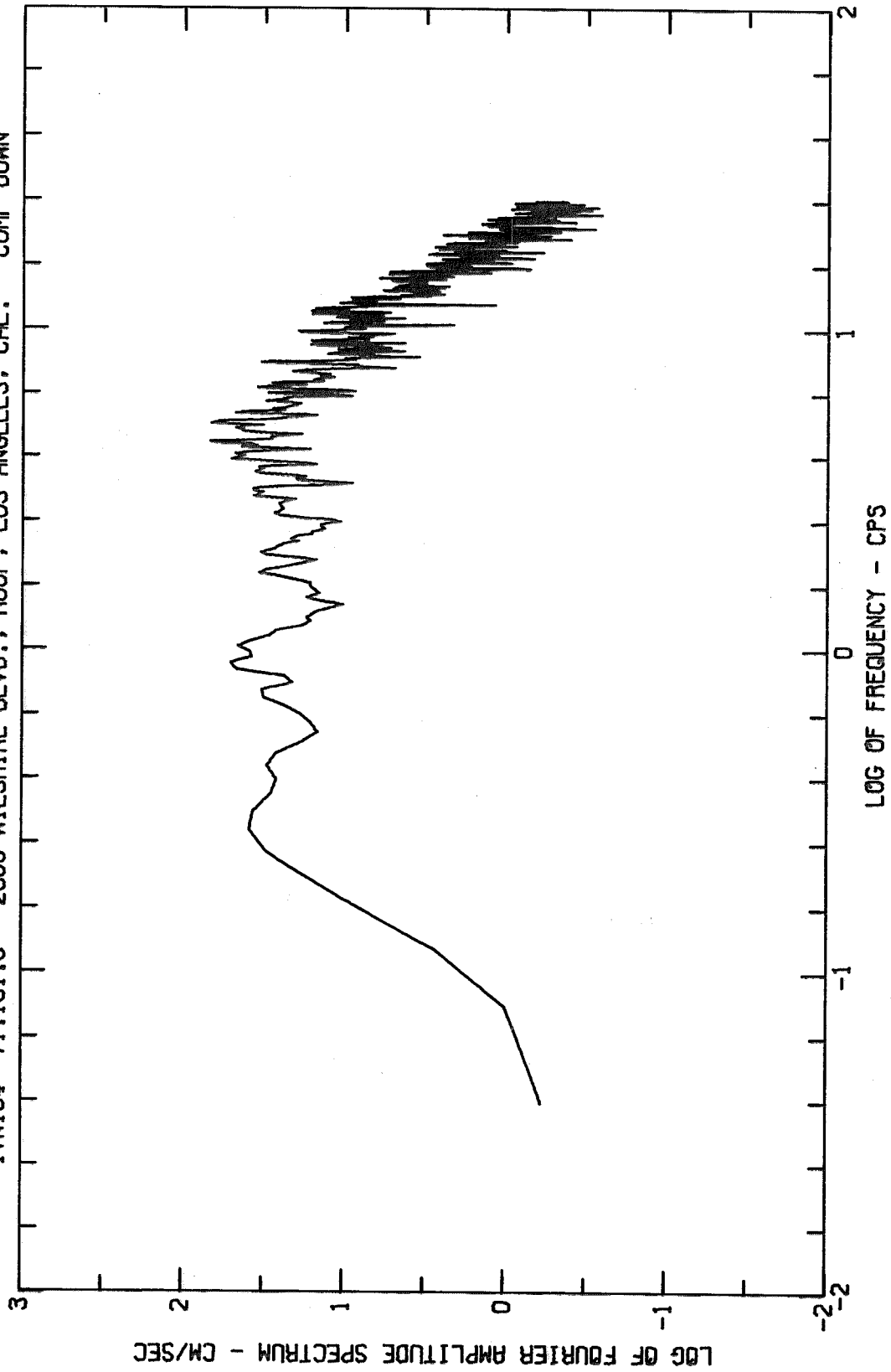
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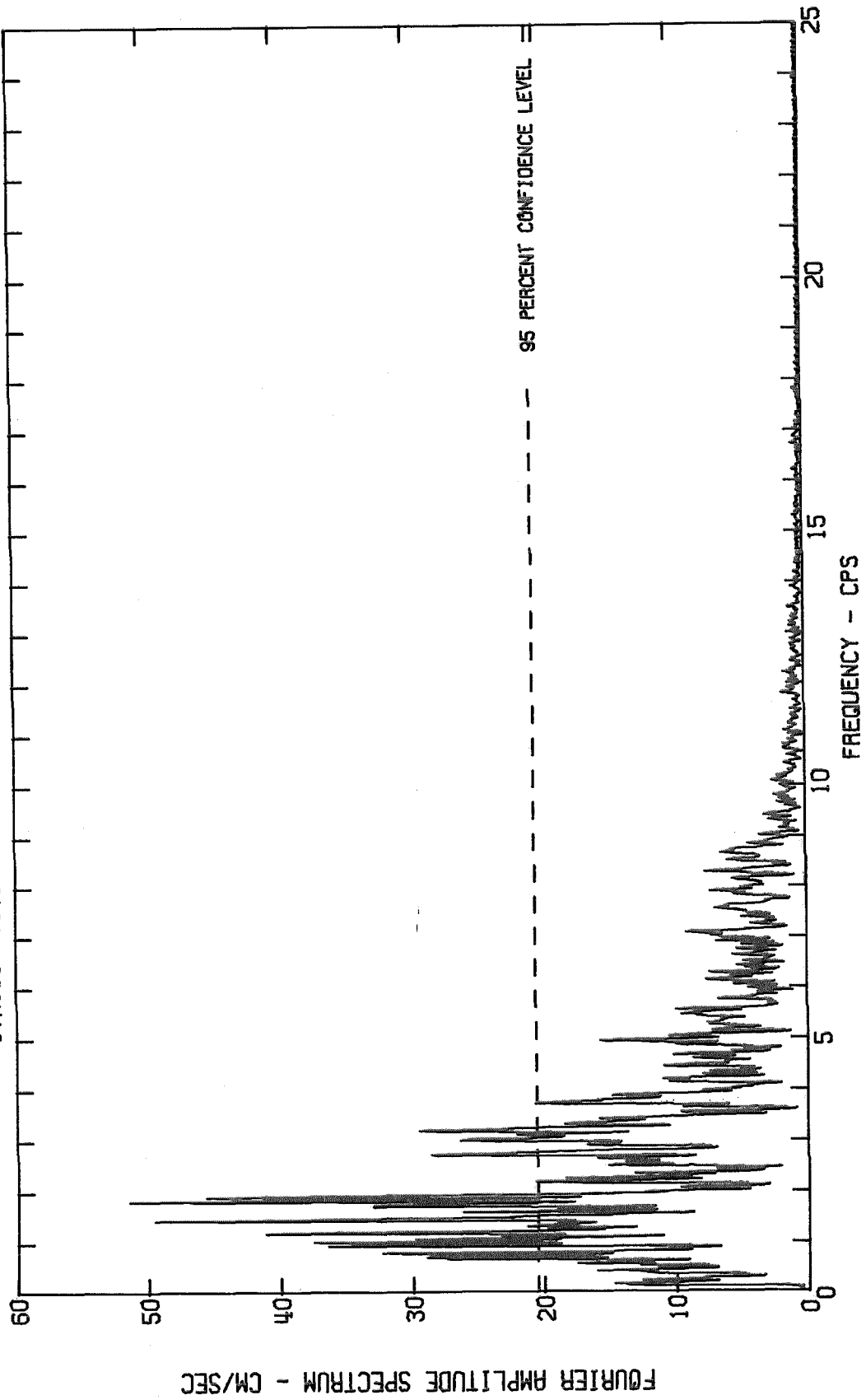
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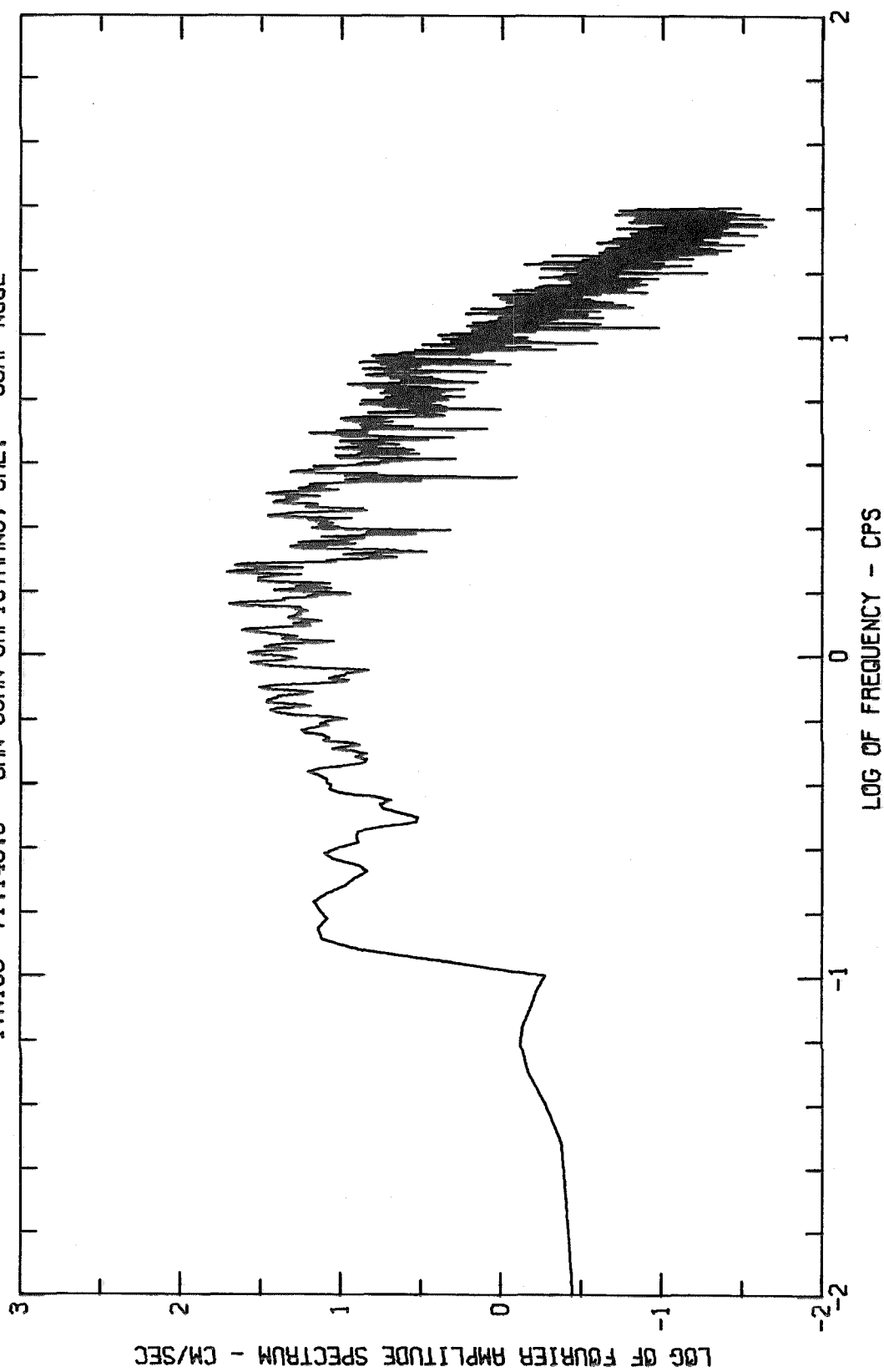
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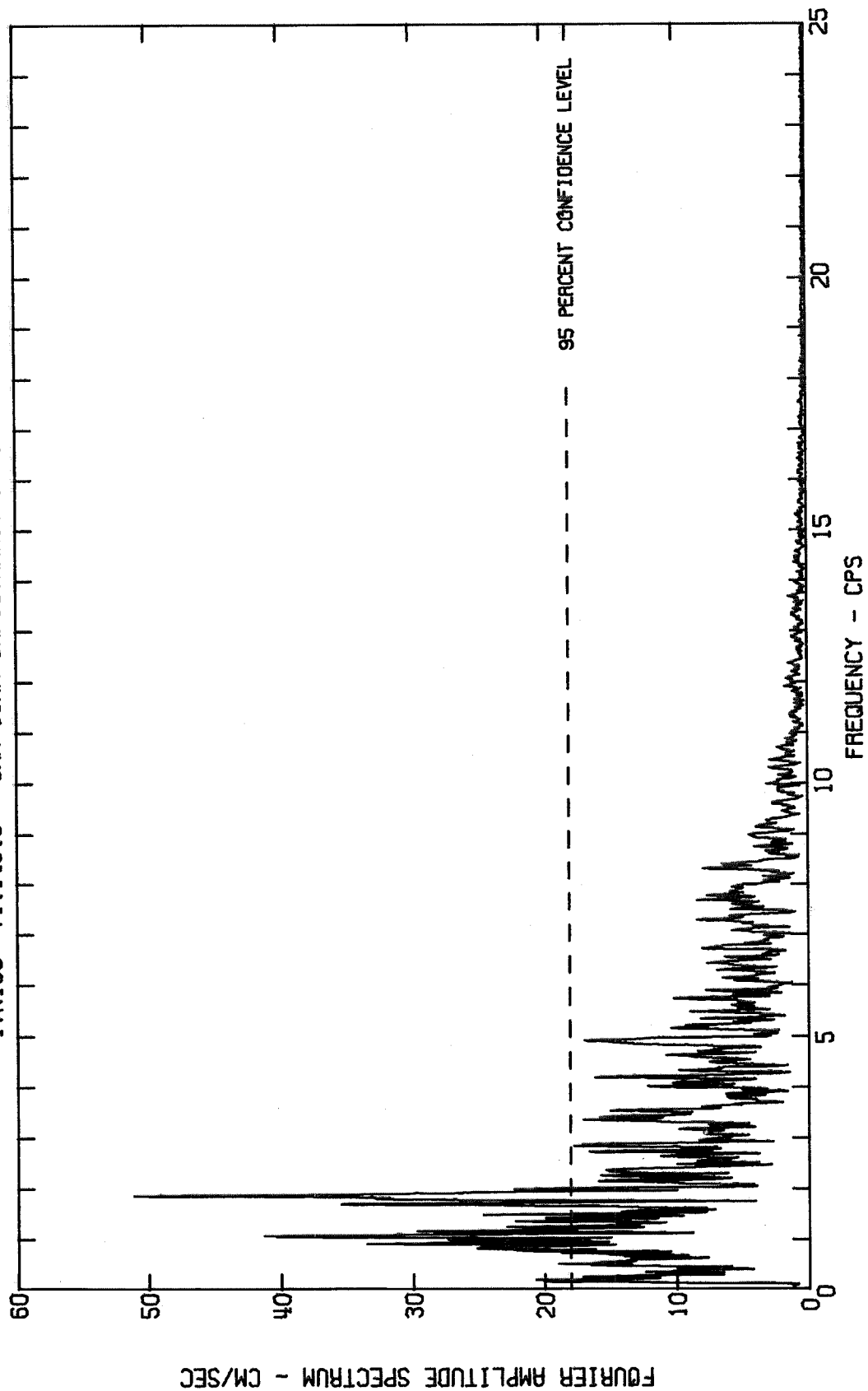
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IVN195 71.140.0 SAN JUAN CAPISTRANO, CAL. COMP N33E



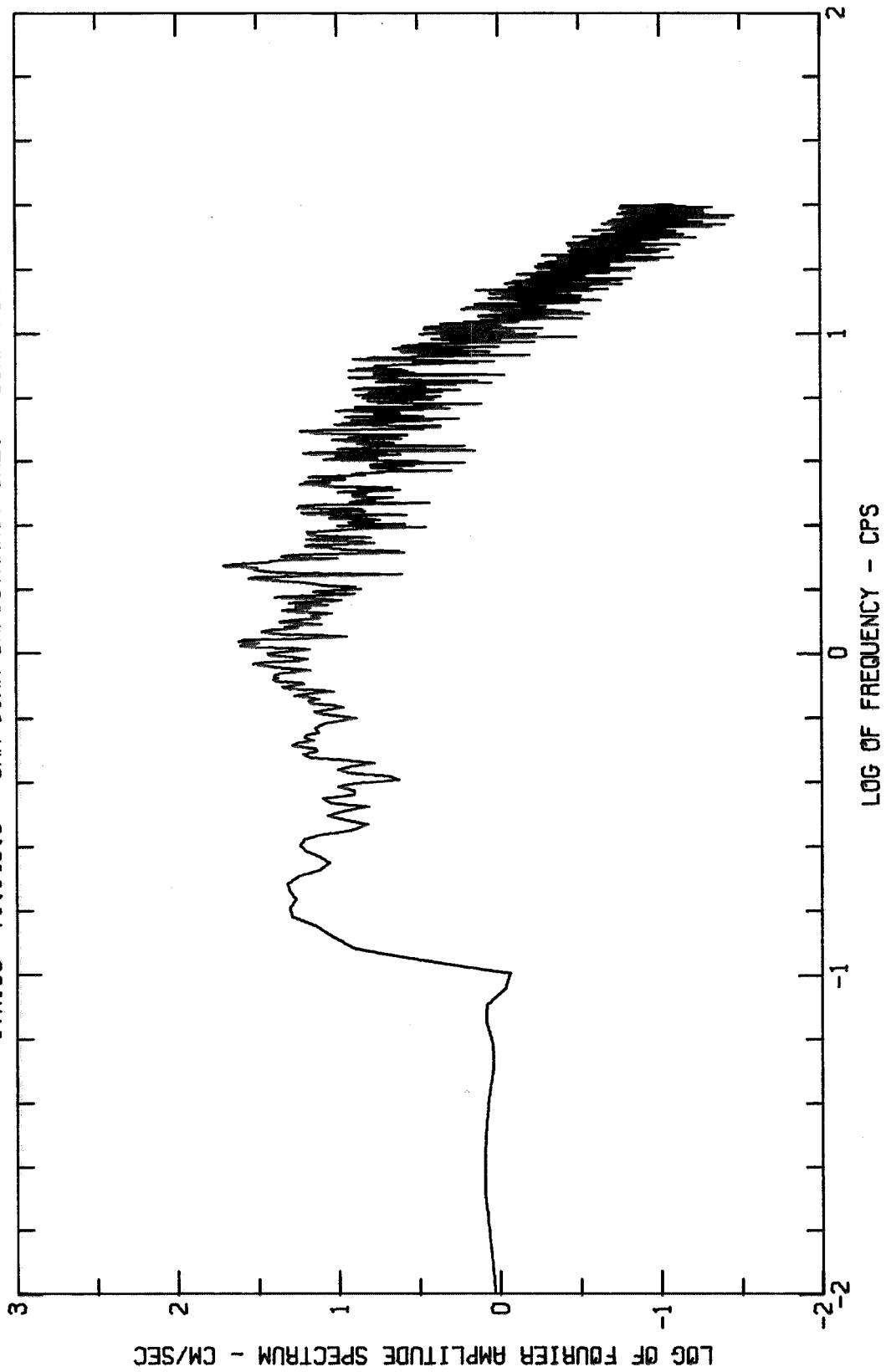
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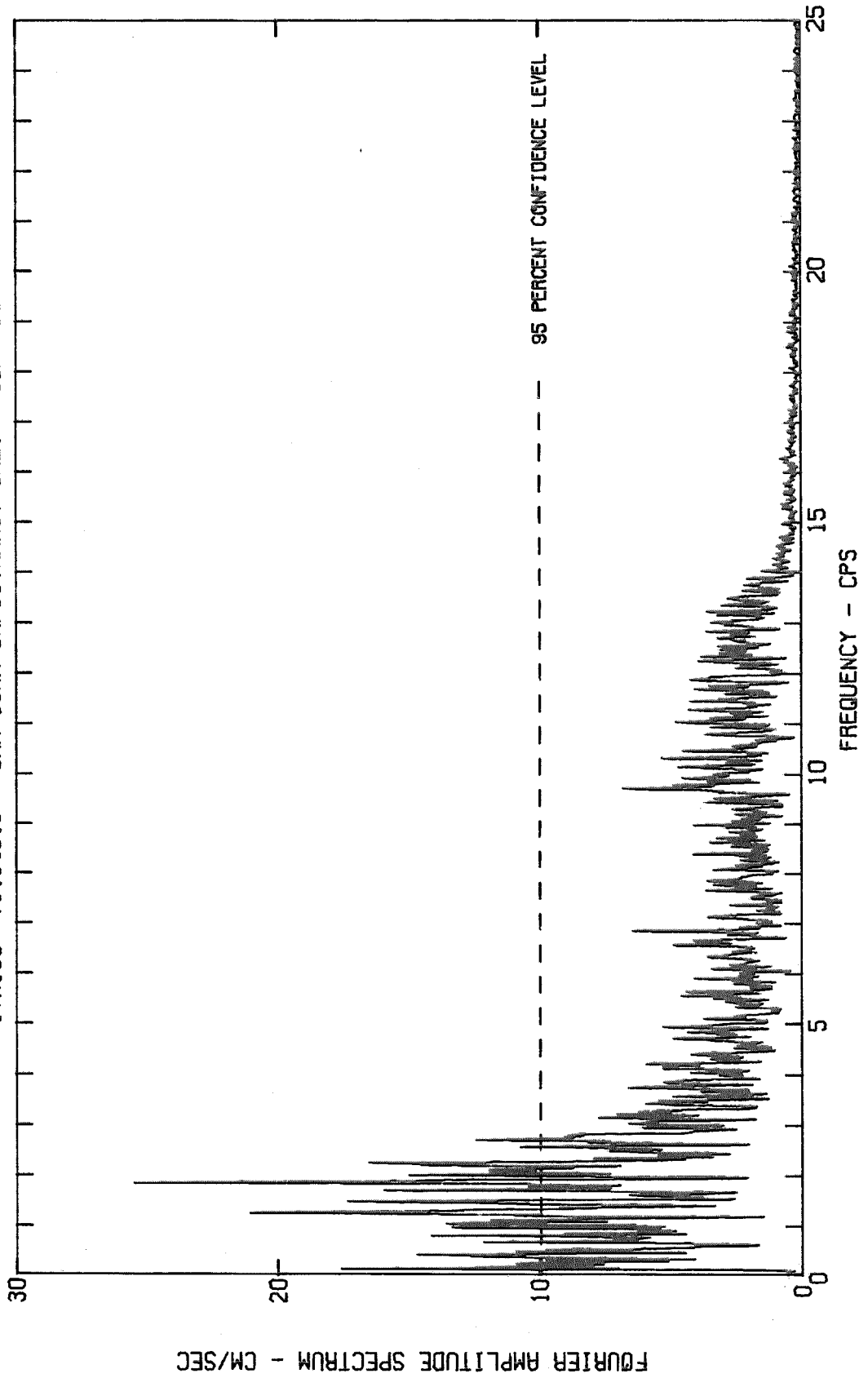
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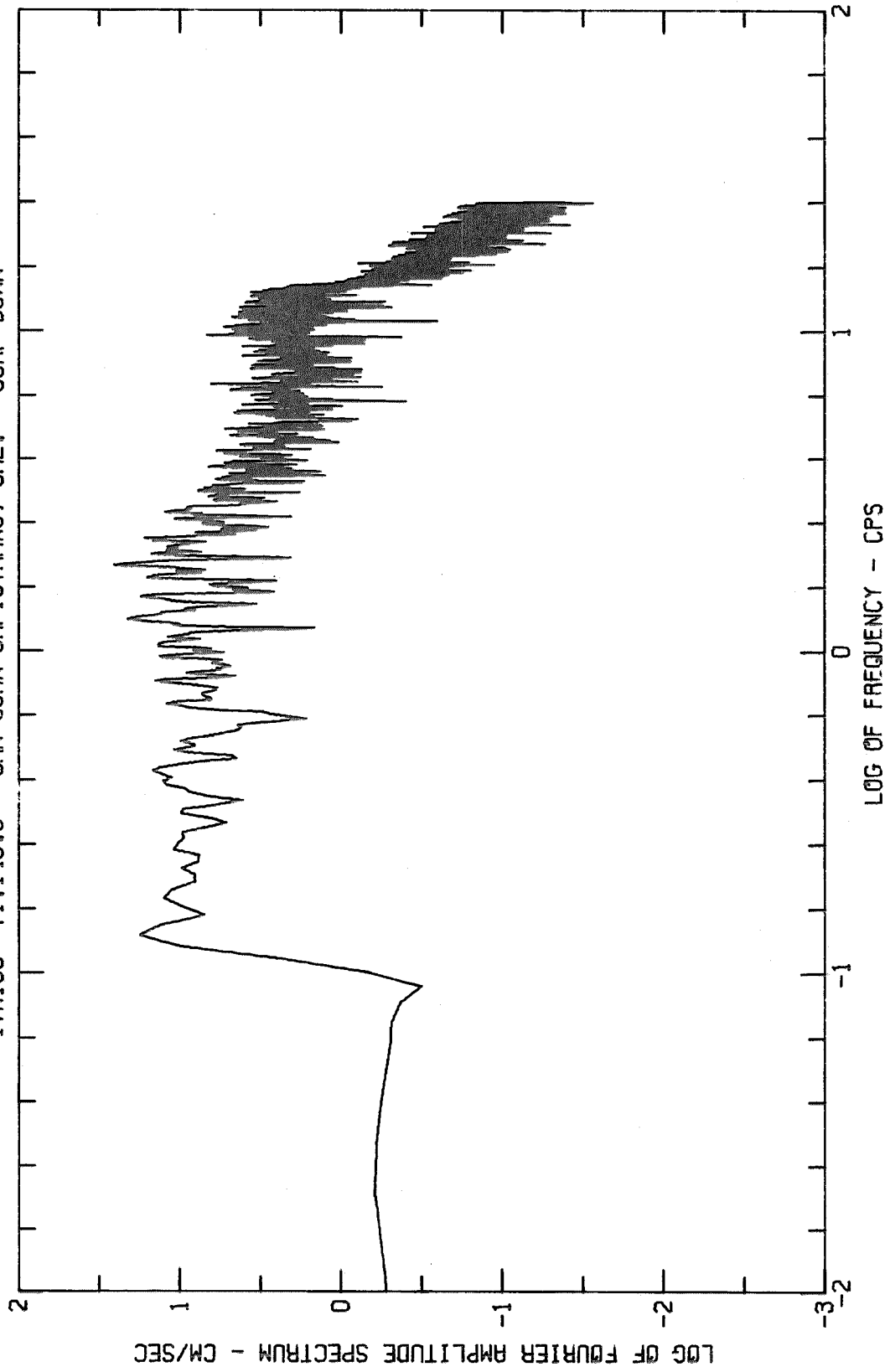
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SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
IVN195 71.140.0 SAN JUAN CAPISTRANO, CAL. COMP N57W



FOURIER AMPLITUDE SPECTRUM OF ACCELERATION
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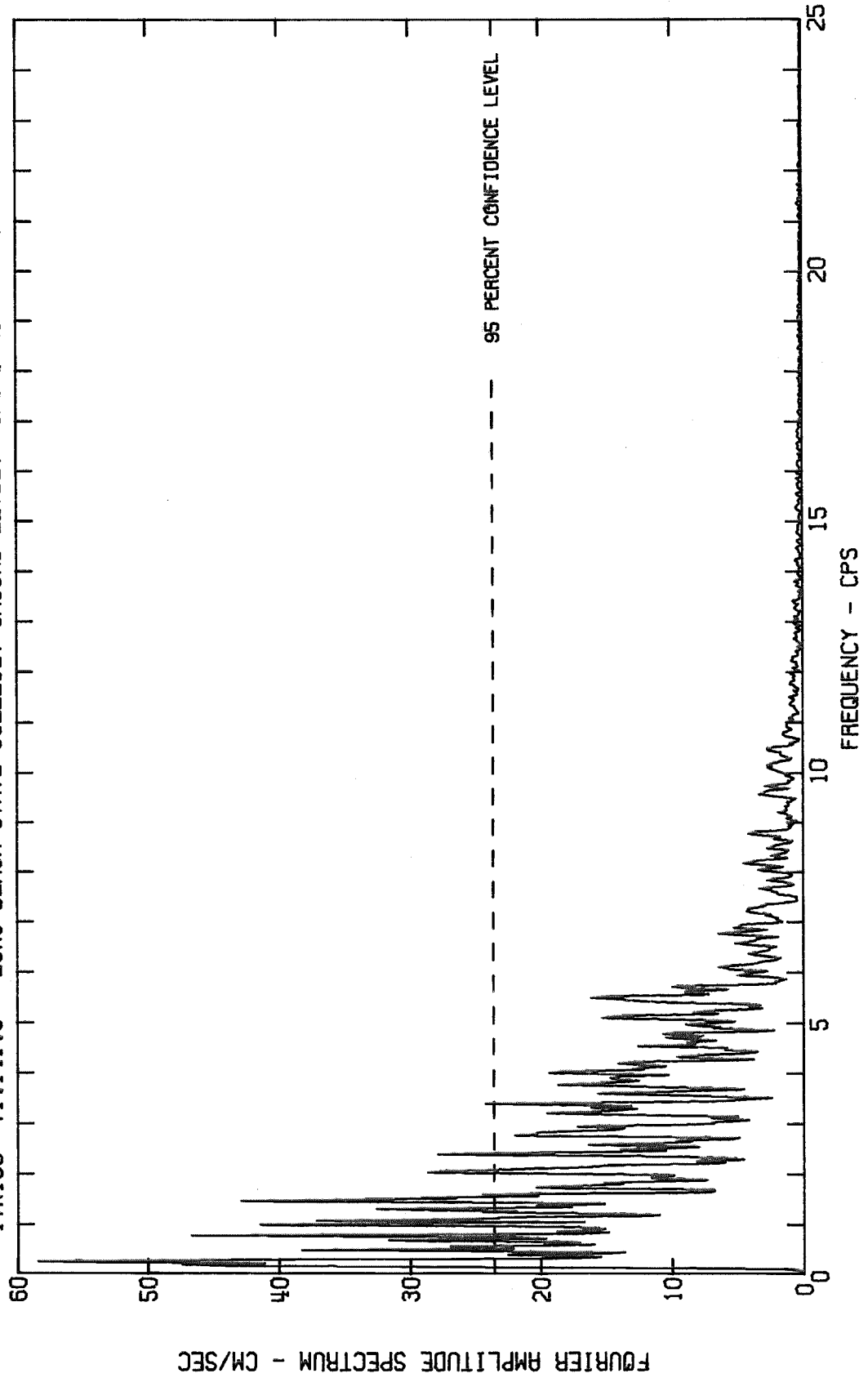
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IVN195 71.140.0 SAN JUAN CAPISTRANO, CAL. COMP DOWN



FOURIER AMPLITUDE SPECTRUM OF ACCELERATION

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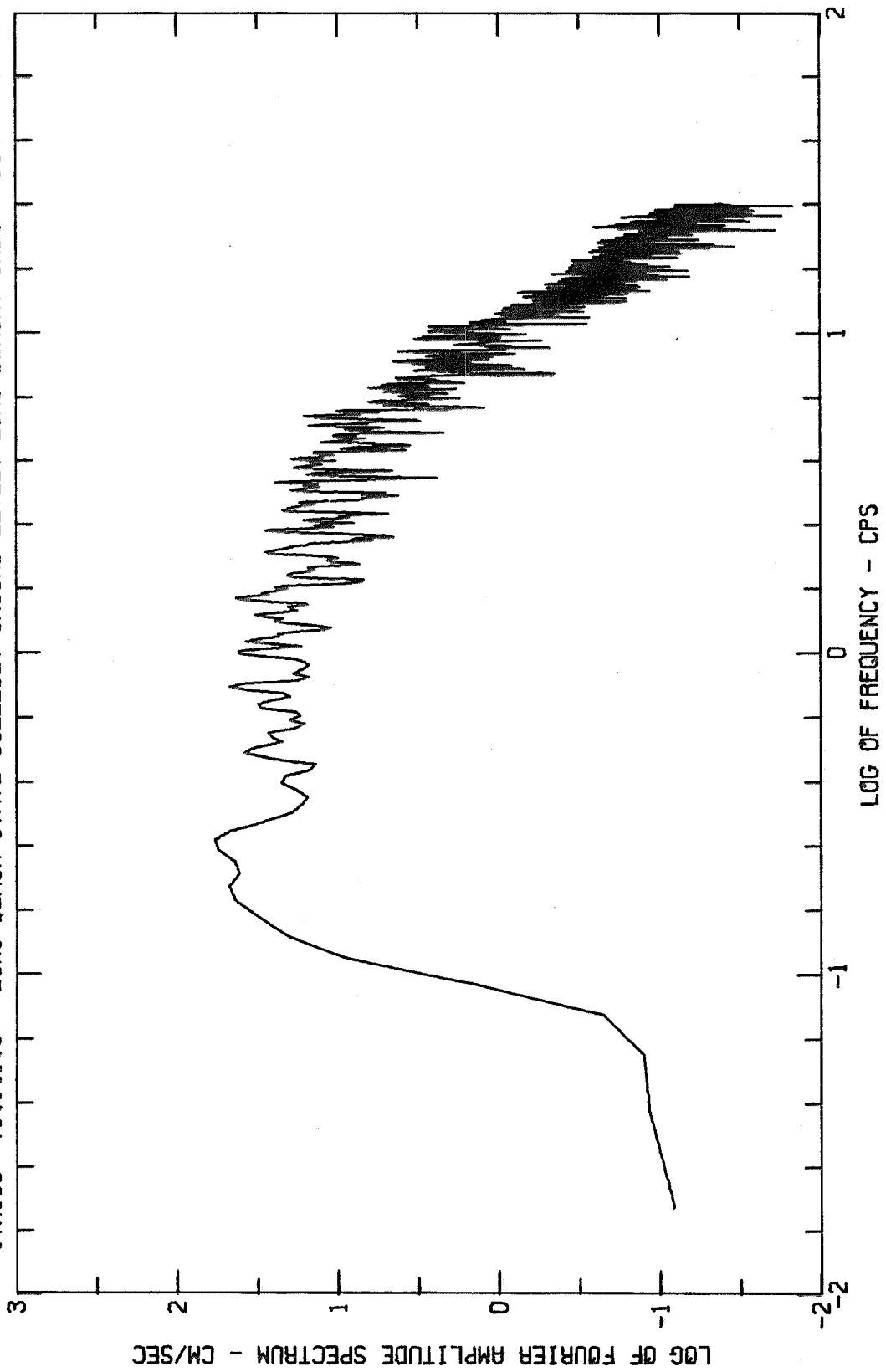
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FOURIER AMPLITUDE SPECTRUM OF ACCELERATION

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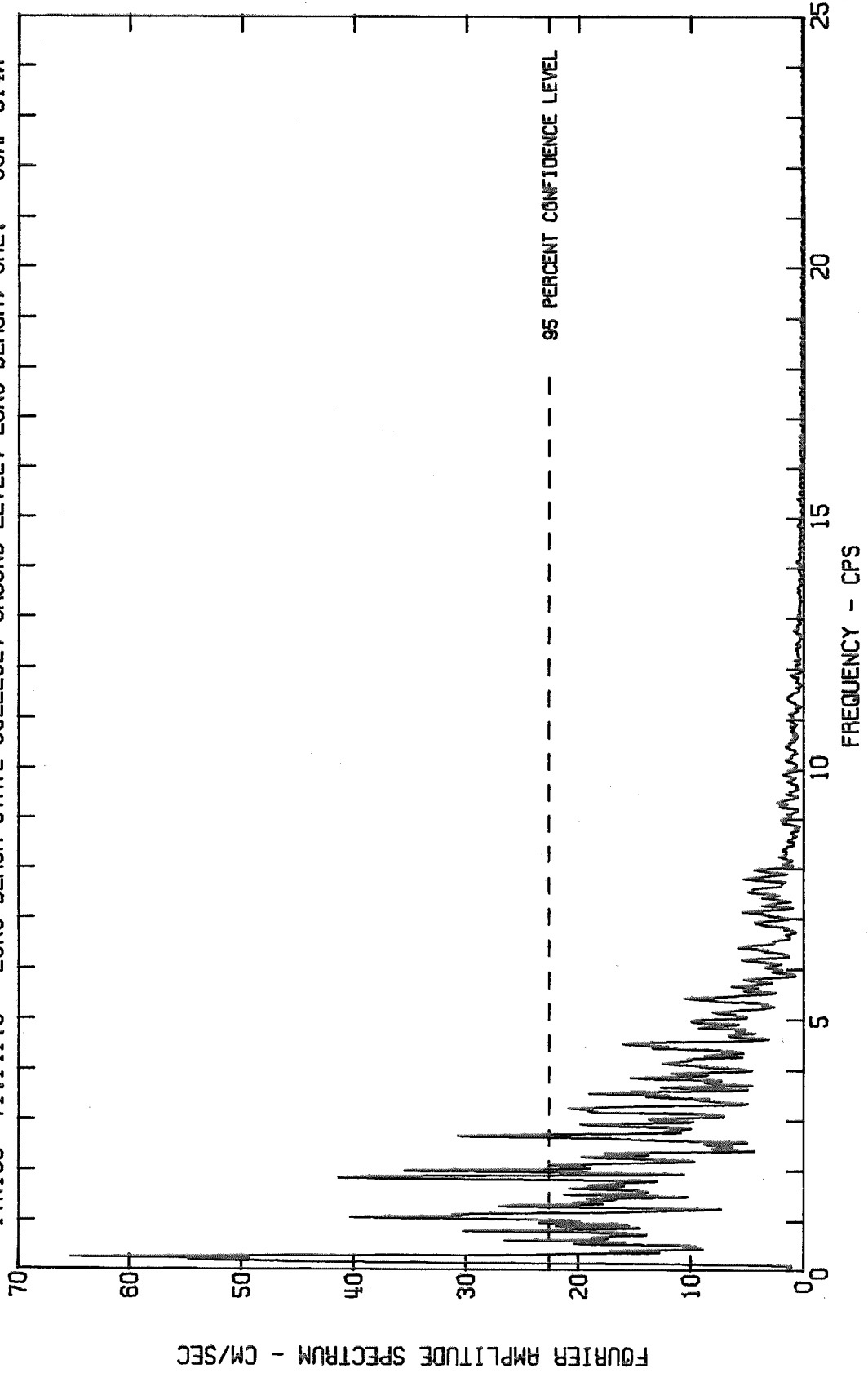
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FOURIER AMPLITUDE SPECTRUM OF ACCELERATION

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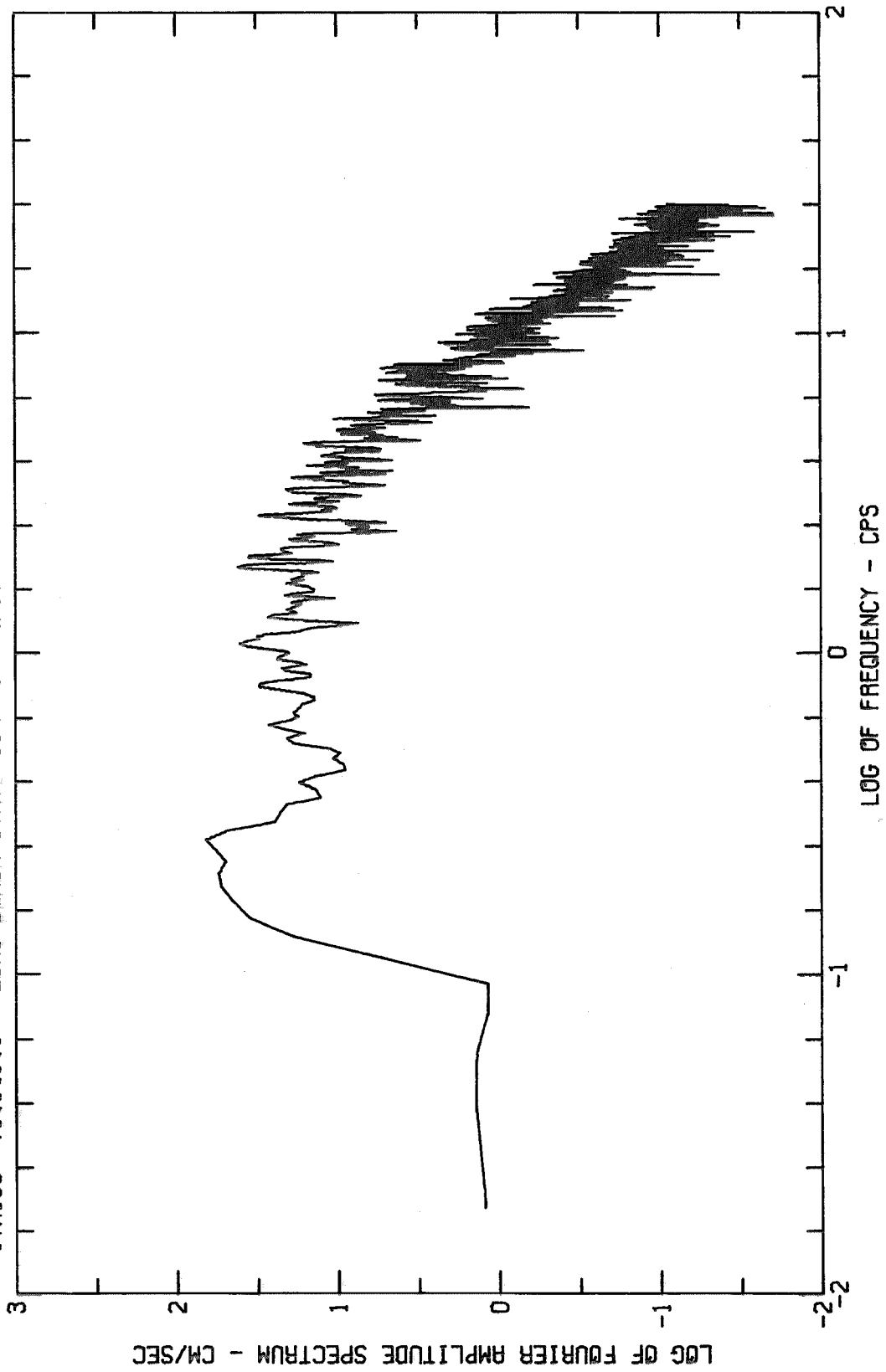
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FOURIER AMPLITUDE SPECTRUM OF ACCELERATION

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

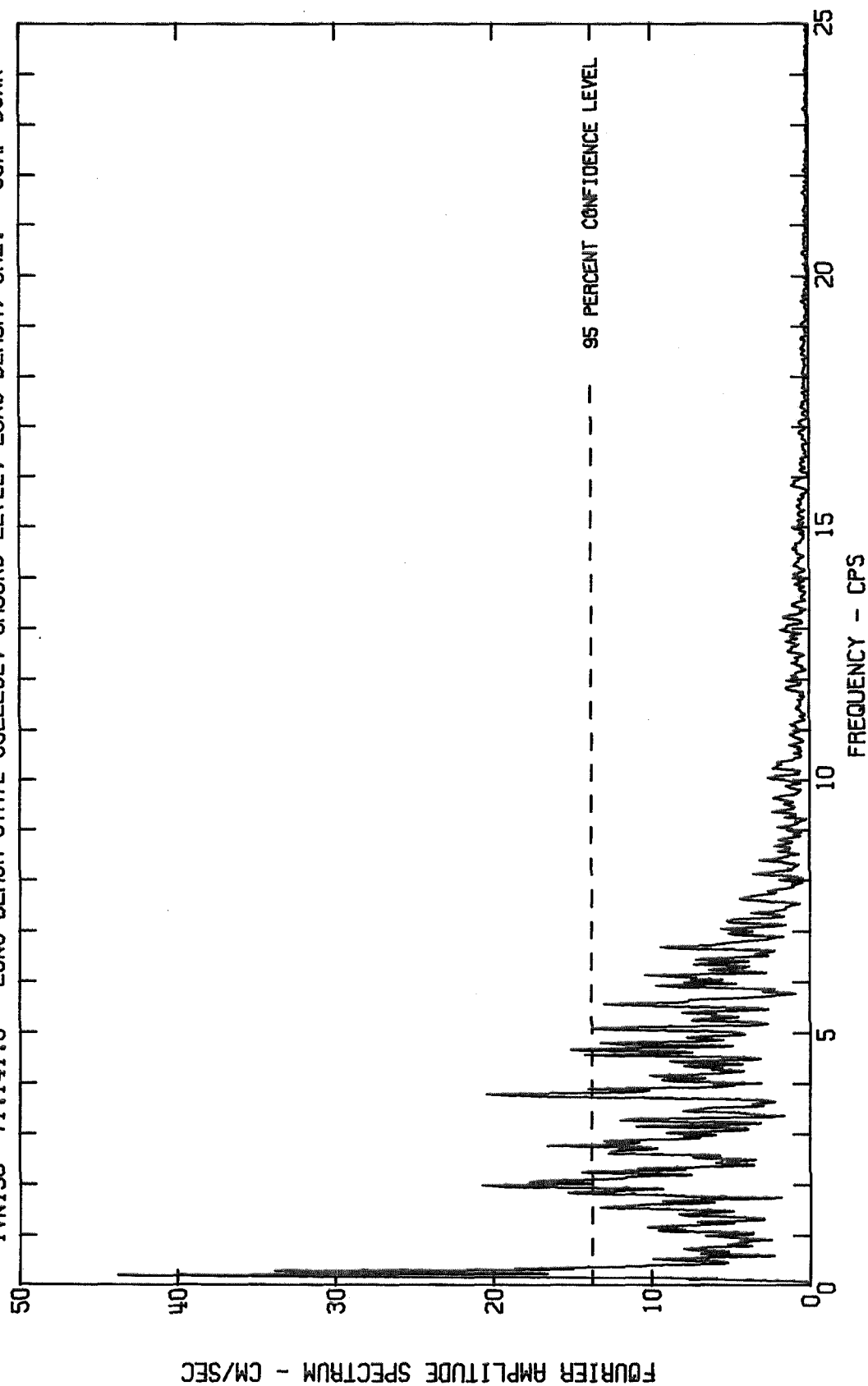
1VN196 71.141.0 LONG BEACH STATE COLLEGE, GROUND LEVEL, LONG BEACH, CAL. COMP S14W



FOURIER AMPLITUDE SPECTRUM OF ACCELERATION

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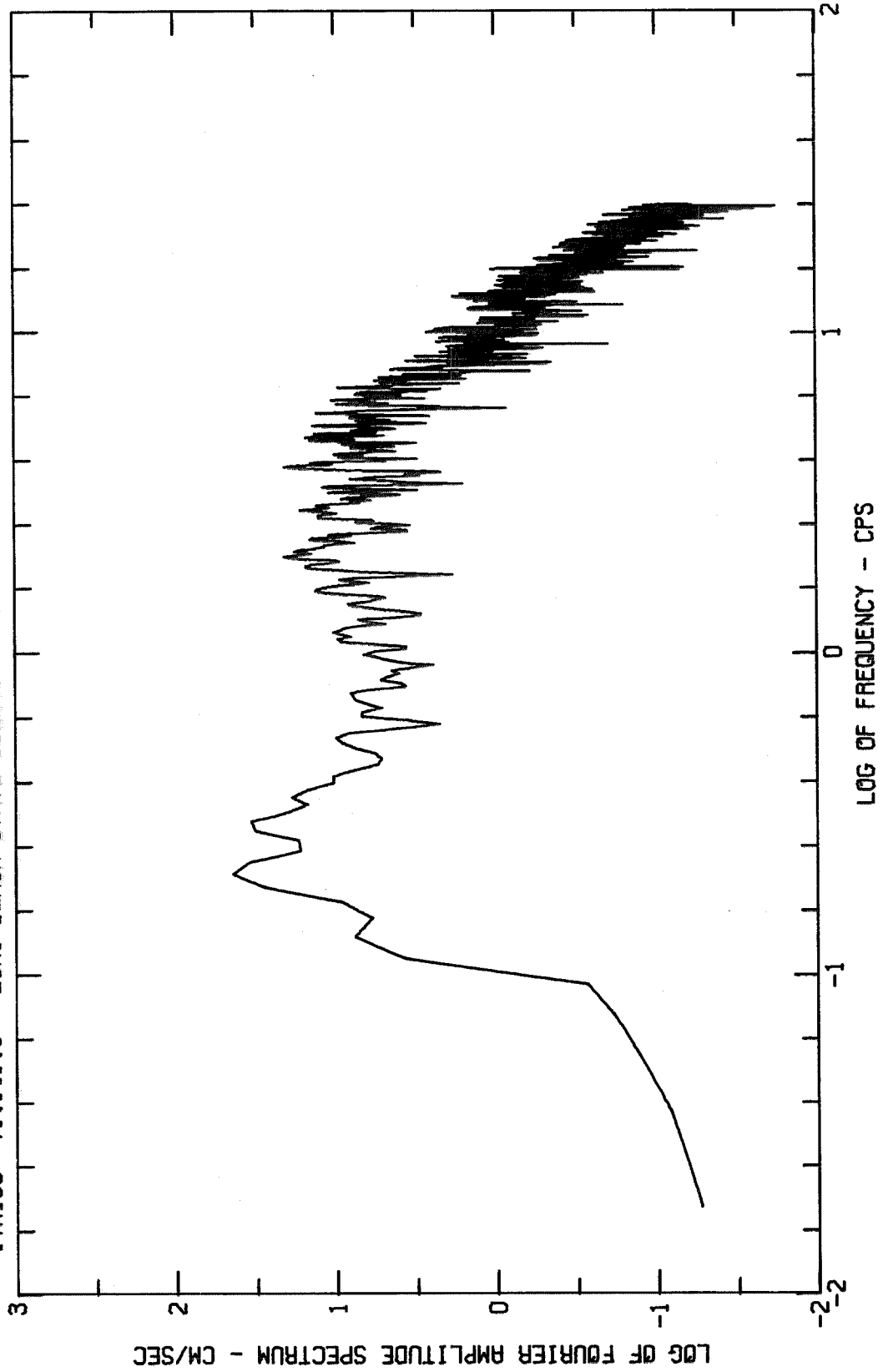
IVN196 71.141.0 LONG BEACH STATE COLLEGE, GROUND LEVEL, LONG BEACH, CAL. COMP DOWN



FOURIER AMPLITUDE SPECTRUM OF ACCELERATION

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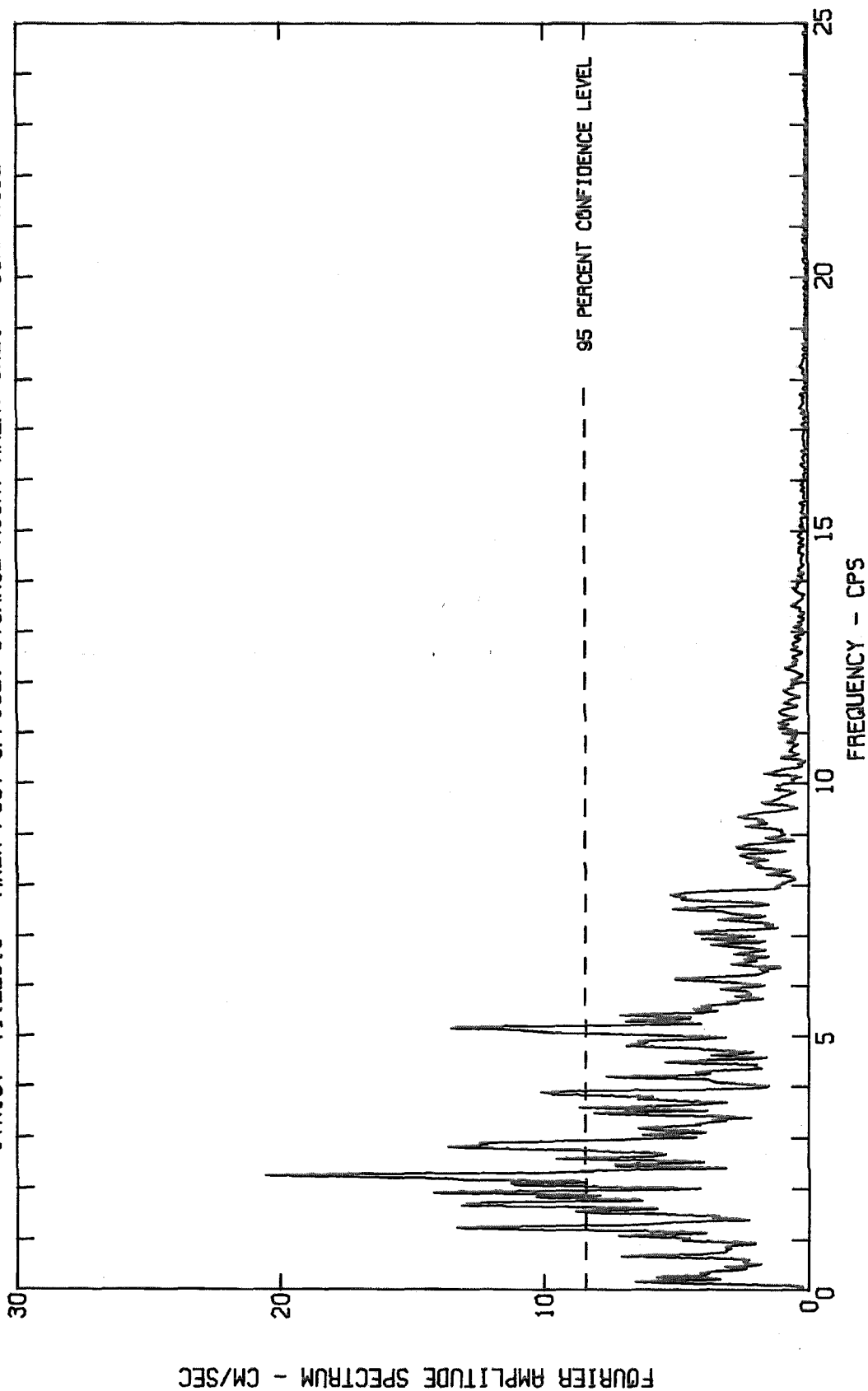
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FOURIER AMPLITUDE SPECTRUM OF ACCELERATION

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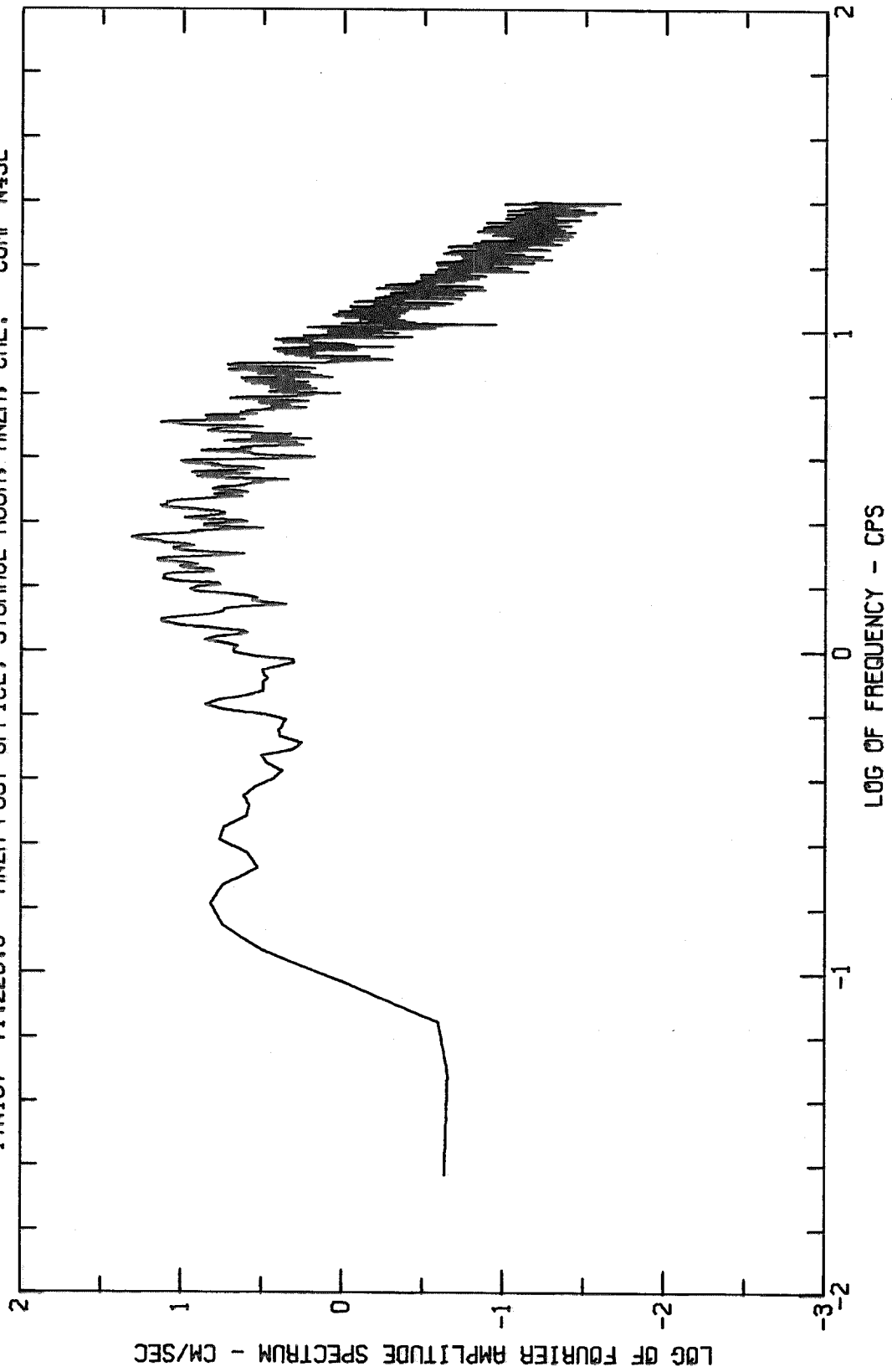
IVN197 71.229.0 ANZA POST OFFICE, STORAGE ROOM, ANZA, CAL. COMP N45E



FOURIER AMPLITUDE SPECTRUM OF ACCELERATION

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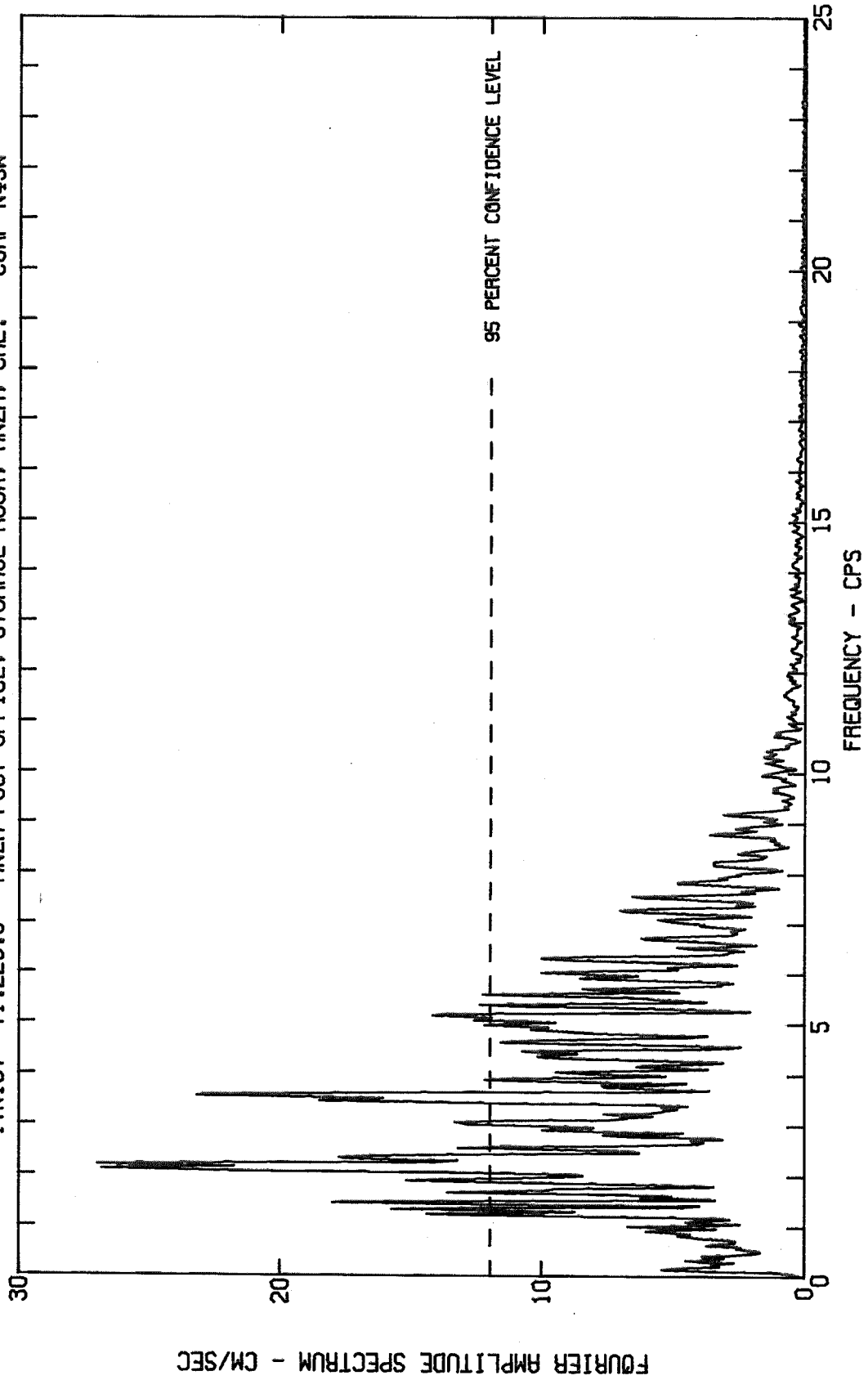
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FOURIER AMPLITUDE SPECTRUM OF ACCELERATION

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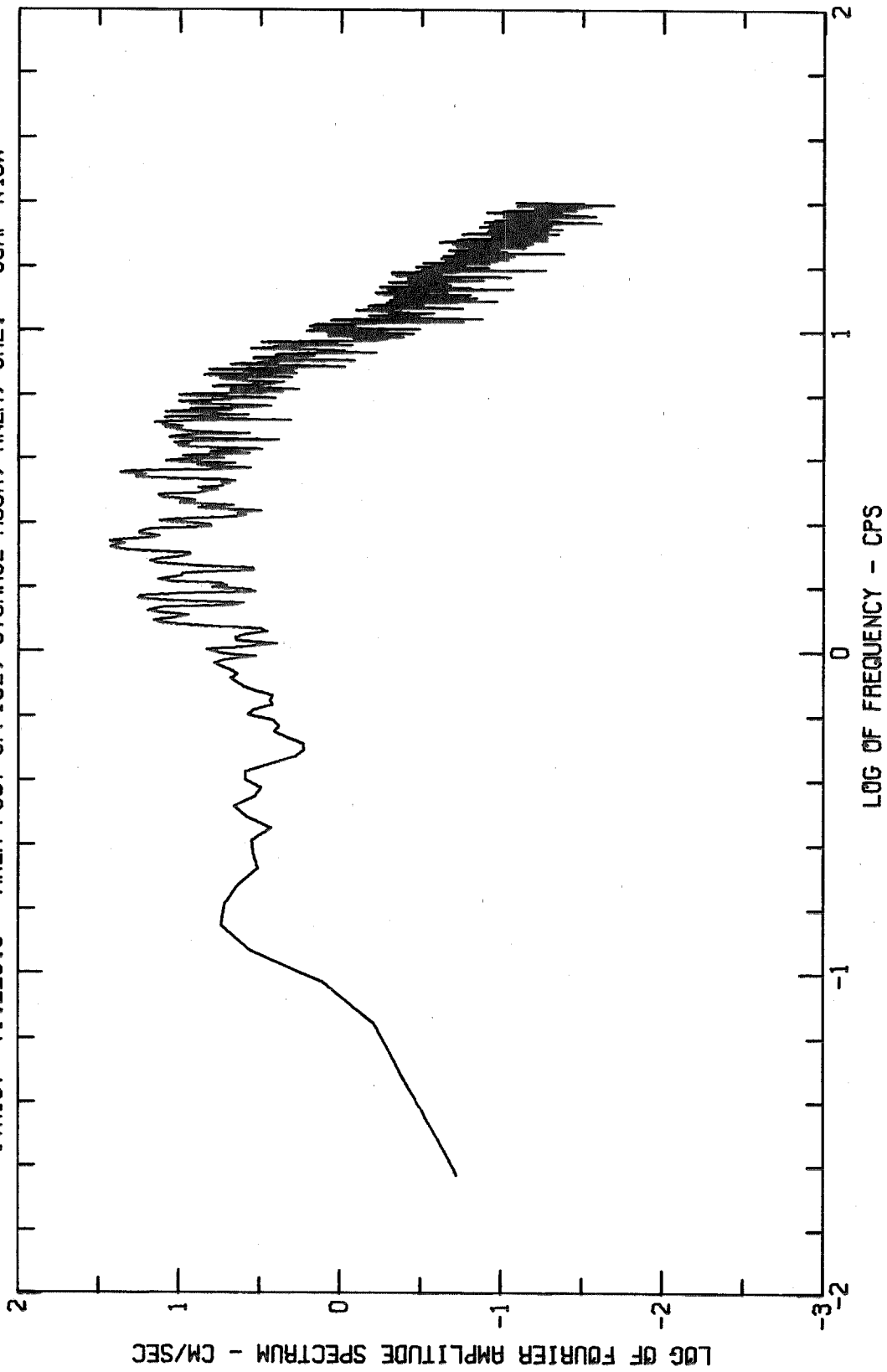
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FOURIER AMPLITUDE SPECTRUM OF ACCELERATION

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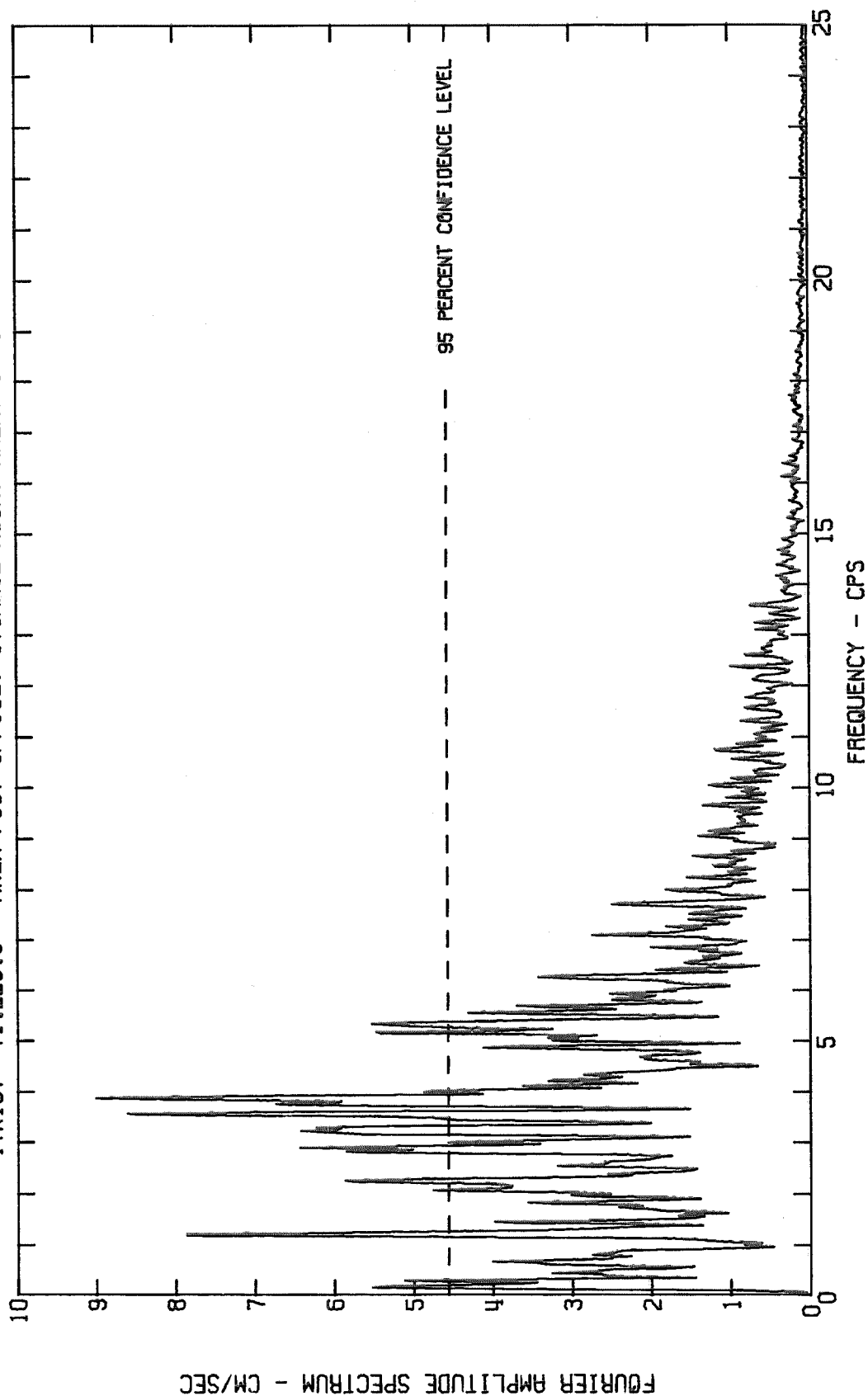
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FOURIER AMPLITUDE SPECTRUM OF ACCELERATION

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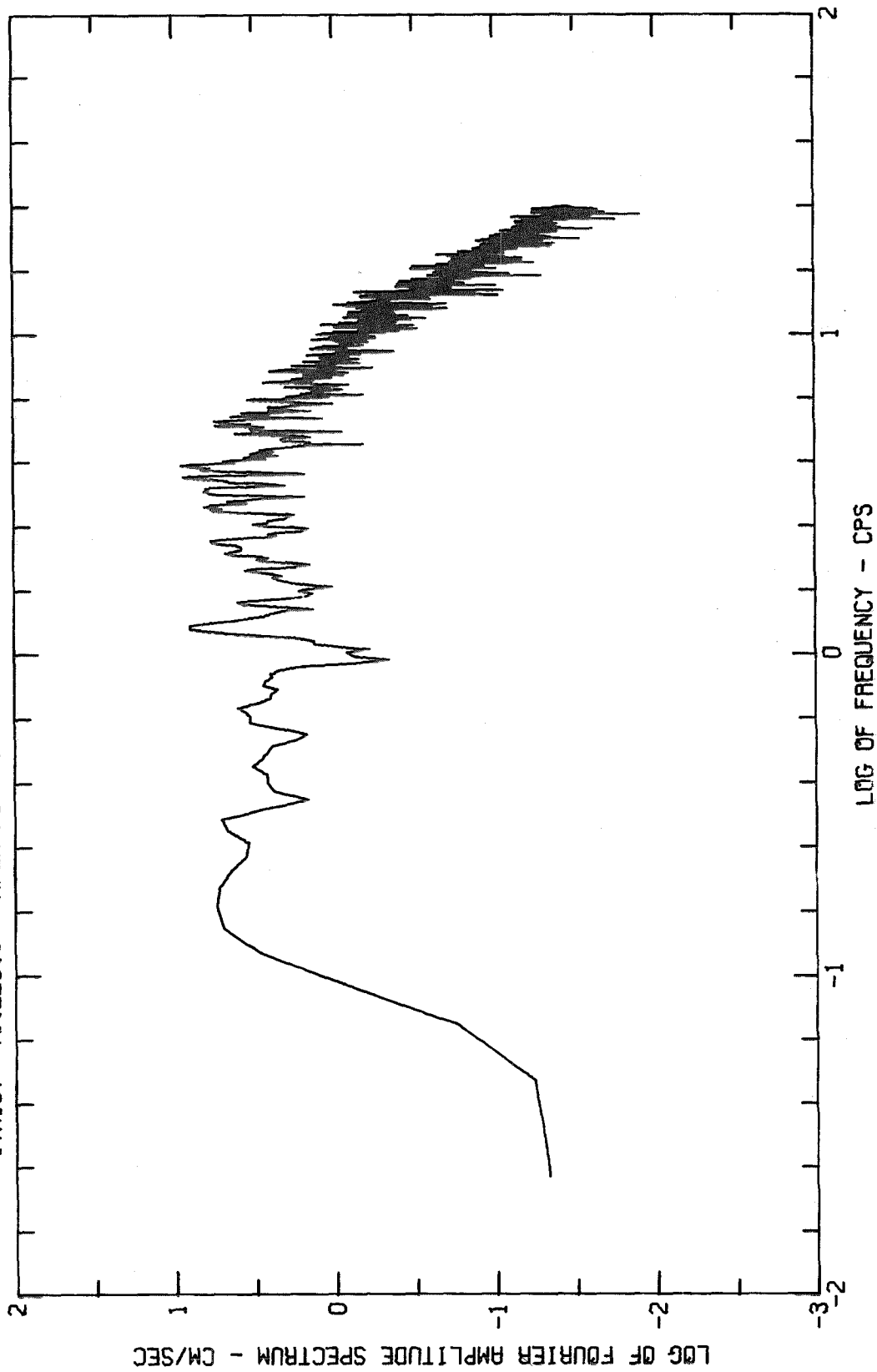
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FOURIER AMPLITUDE SPECTRUM OF ACCELERATION

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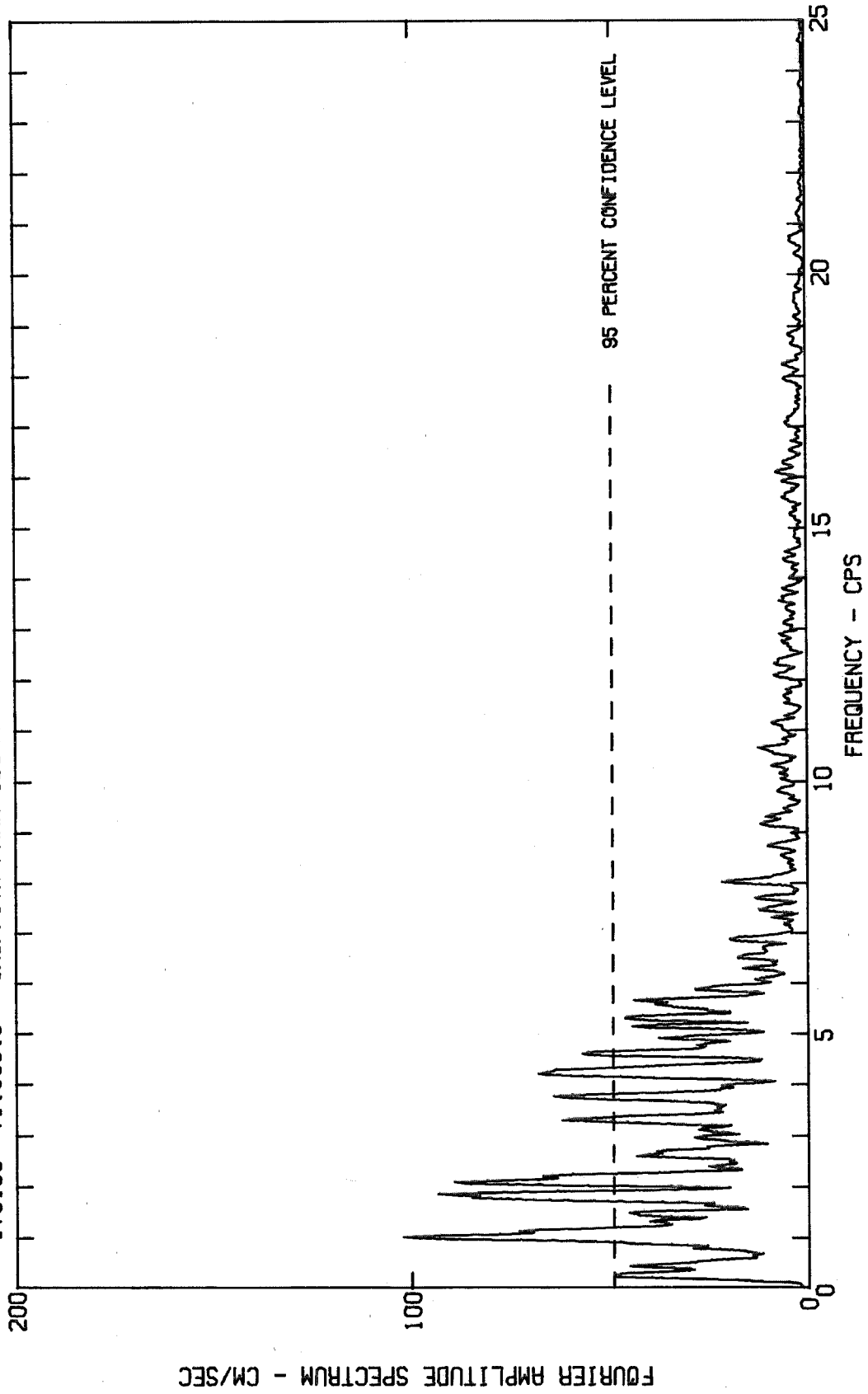
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FOURIER AMPLITUDE SPECTRUM OF ACCELERATION

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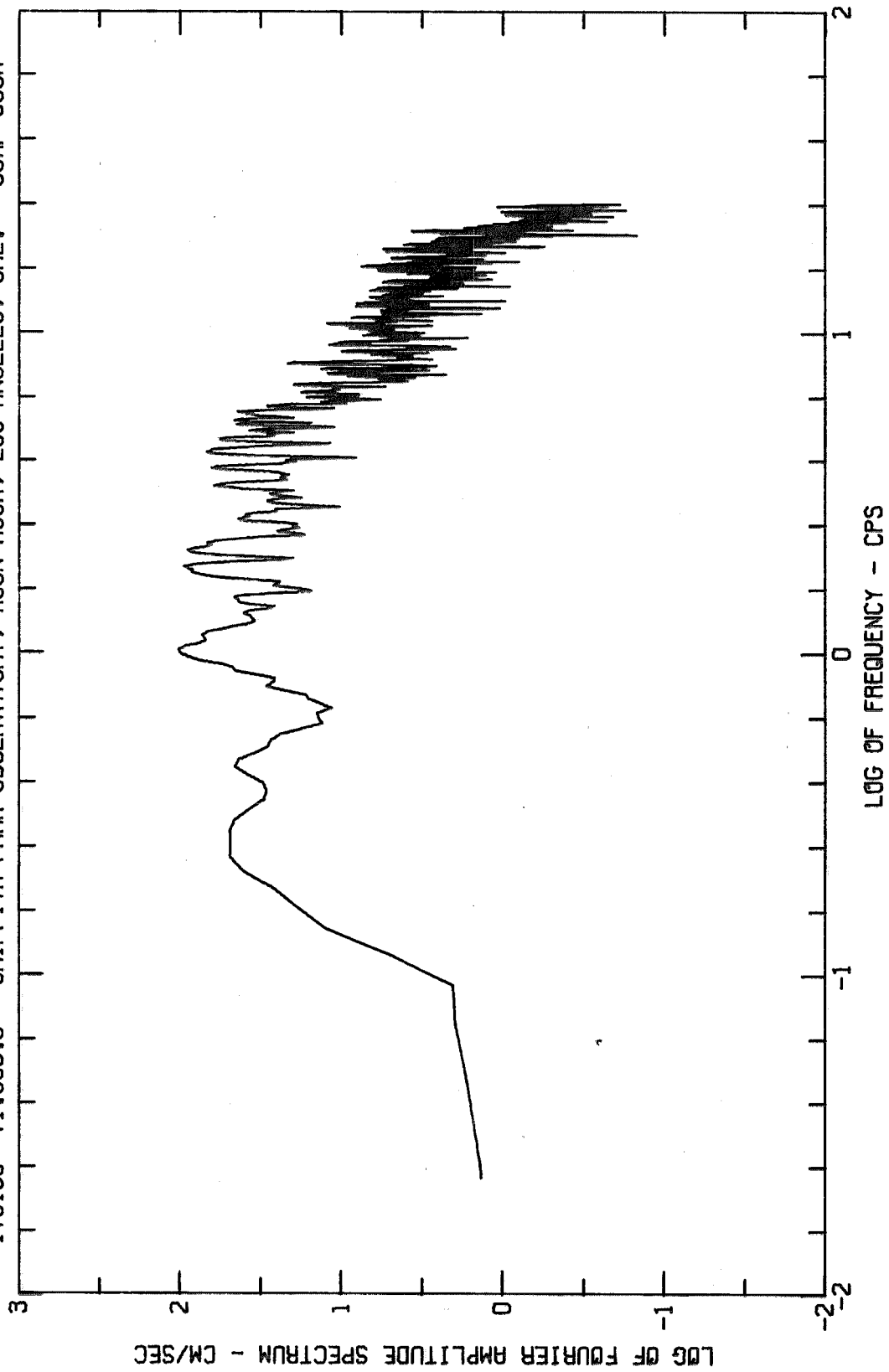
IV0198 71.069.0 GRIFFITH PARK OBSERVATORY, MOON ROOM, LOS ANGELES, CAL. COMP 500W



FOURIER AMPLITUDE SPECTRUM OF ACCELERATION

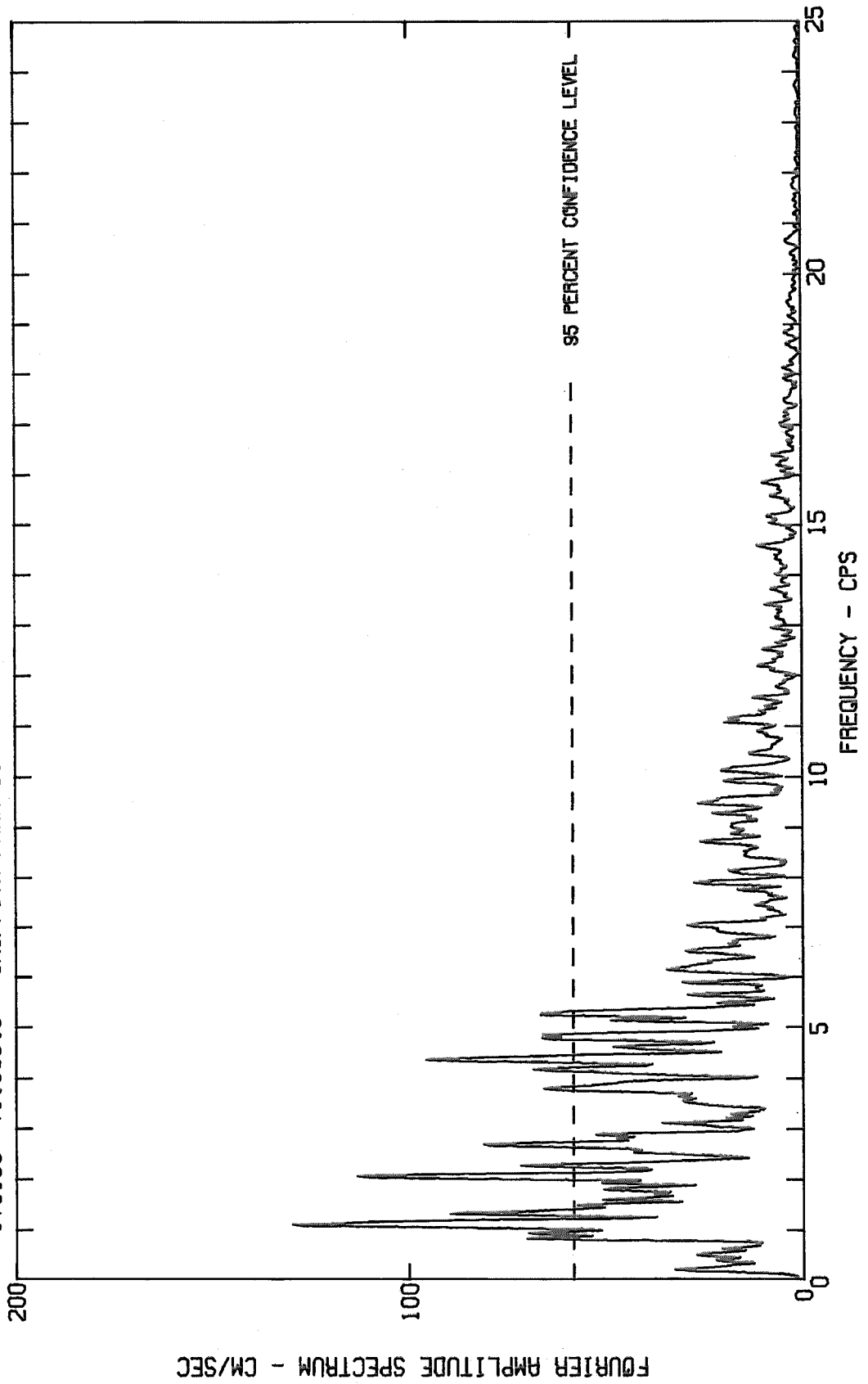
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IV0198 71.069.0 GRIFFITH PARK OBSERVATORY, MOON ROOM, LOS ANGELES, CAL. COMP SOON



FOURIER AMPLITUDE SPECTRUM OF ACCELERATION
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

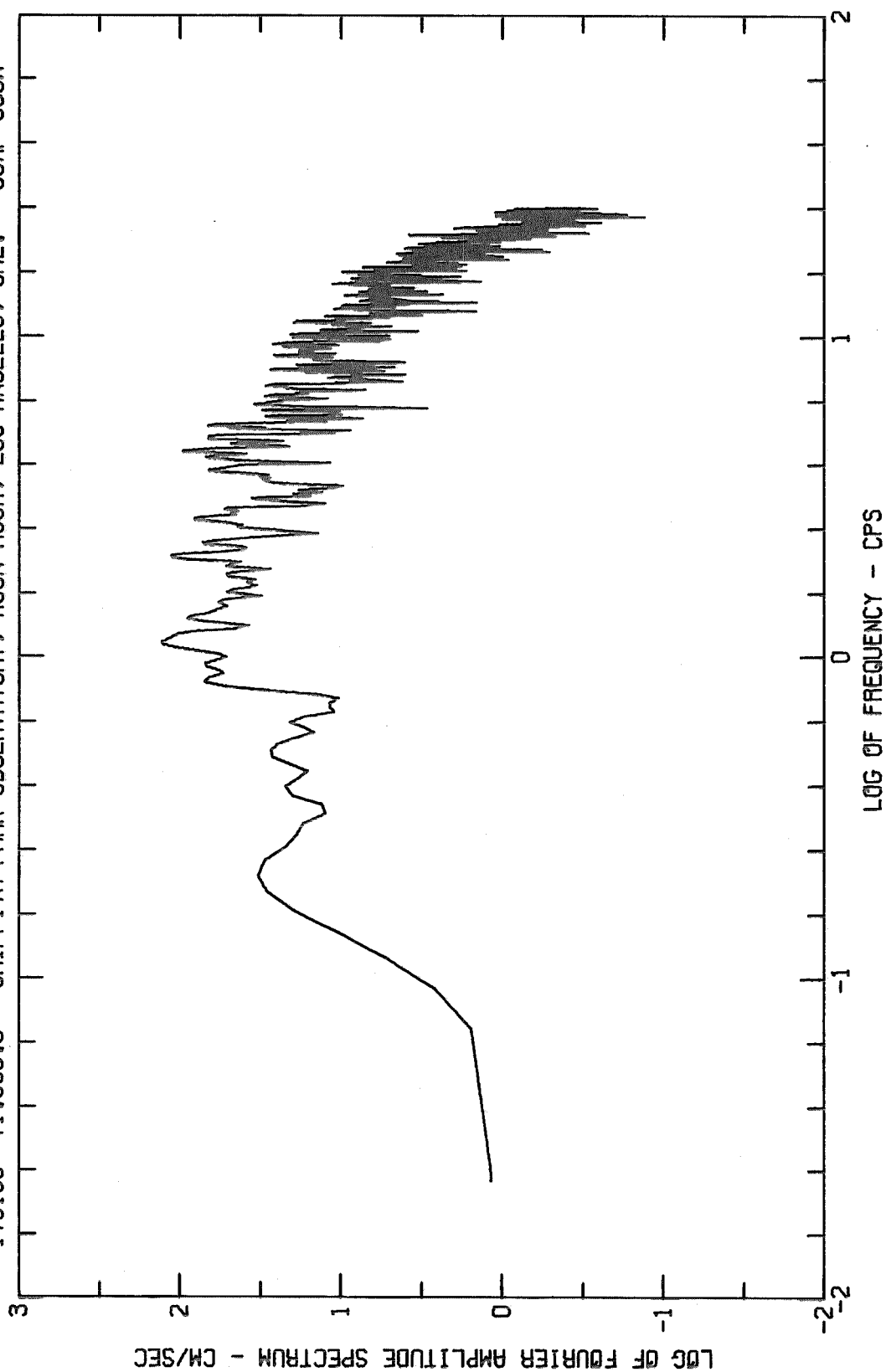
1V0198 71.069.0 GRIFFITH PARK OBSERVATORY, MOON ROOM, LOS ANGELES, CAL. COMP S90W



FOURIER AMPLITUDE SPECTRUM OF ACCELERATION

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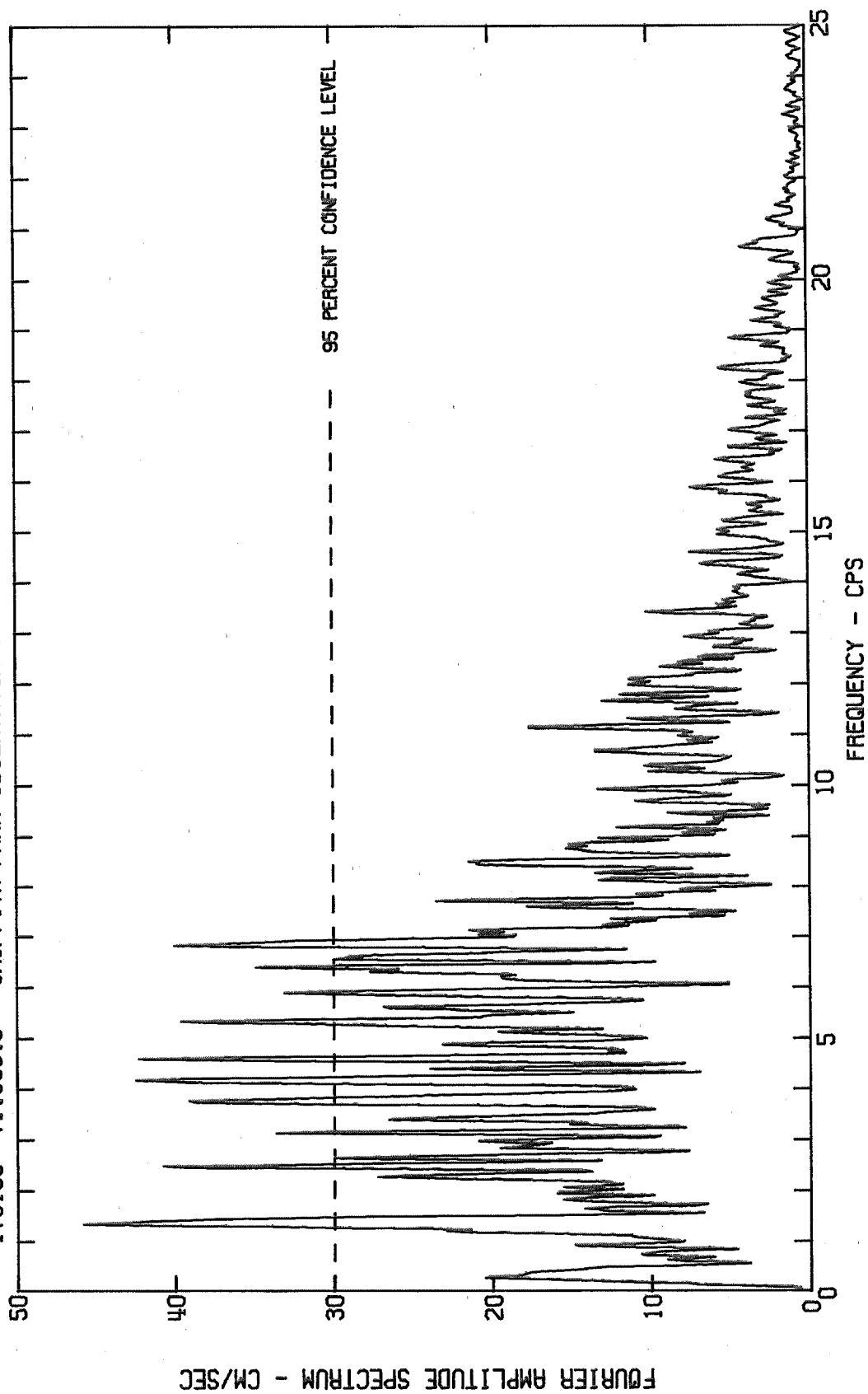
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FOURIER AMPLITUDE SPECTRUM OF ACCELERATION

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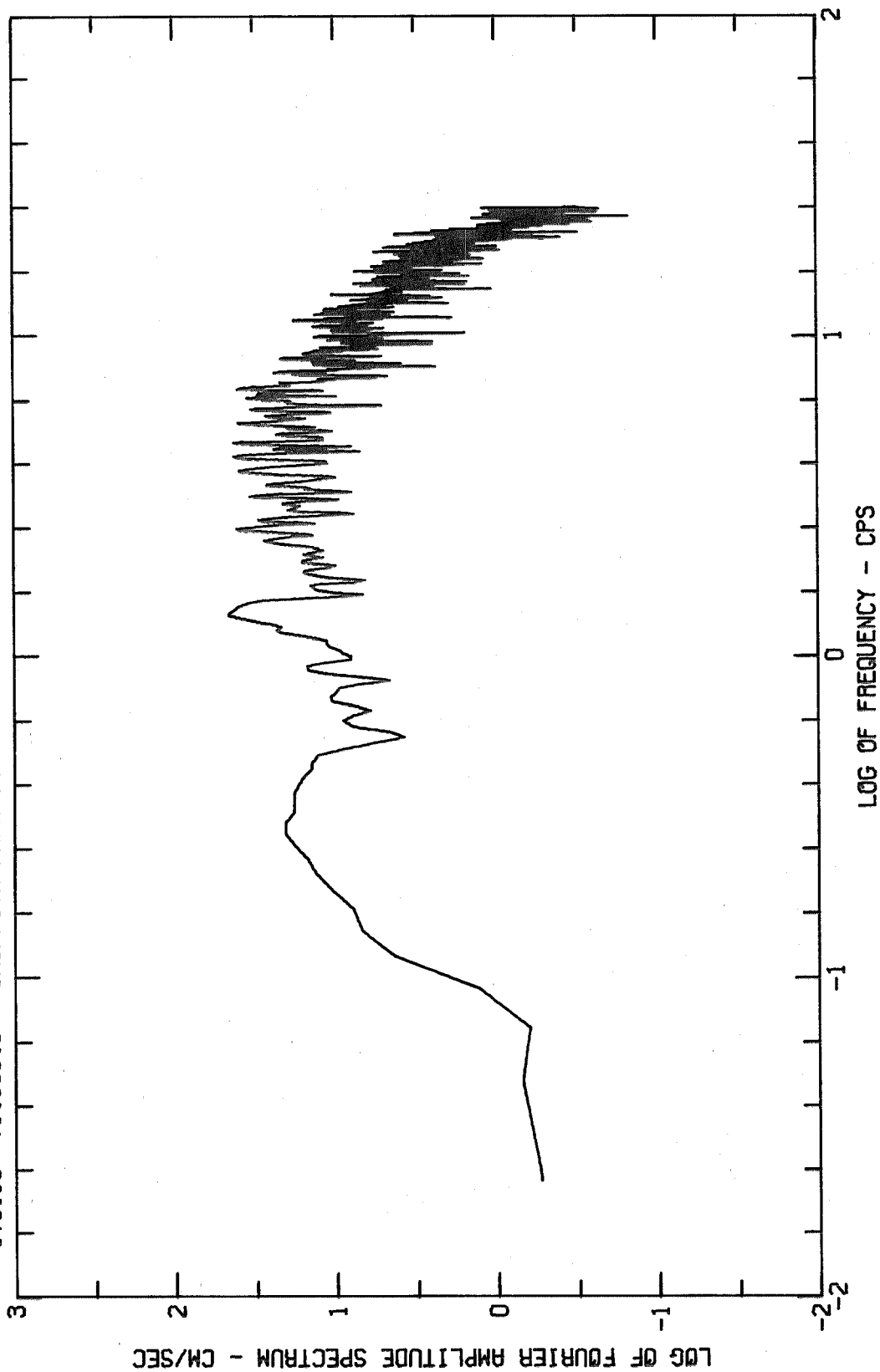
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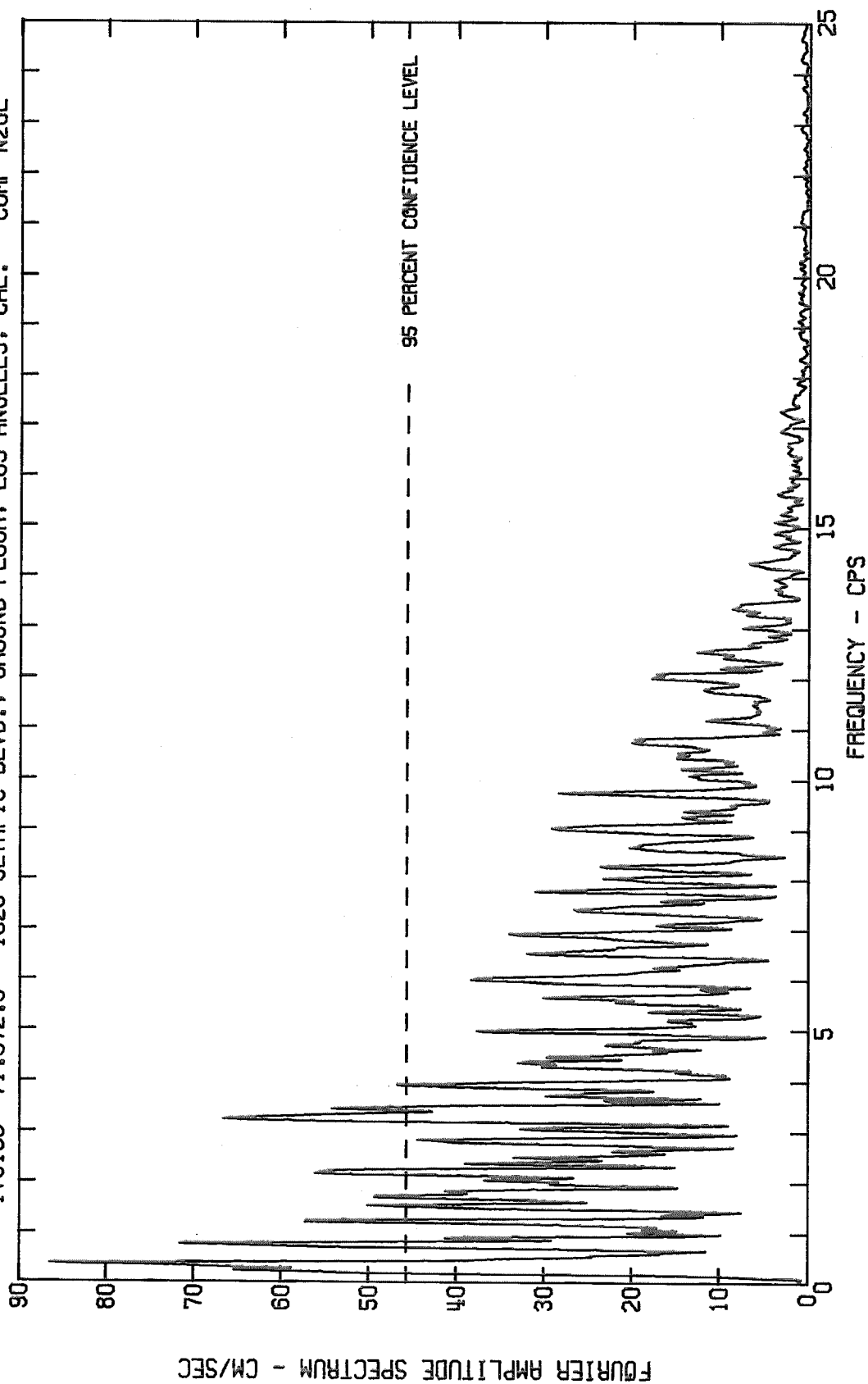
IV0198 71.069.0 GRIFFITH PARK OBSERVATORY, MOON ROOM, LOS ANGELES, CAL. COMP DOWN

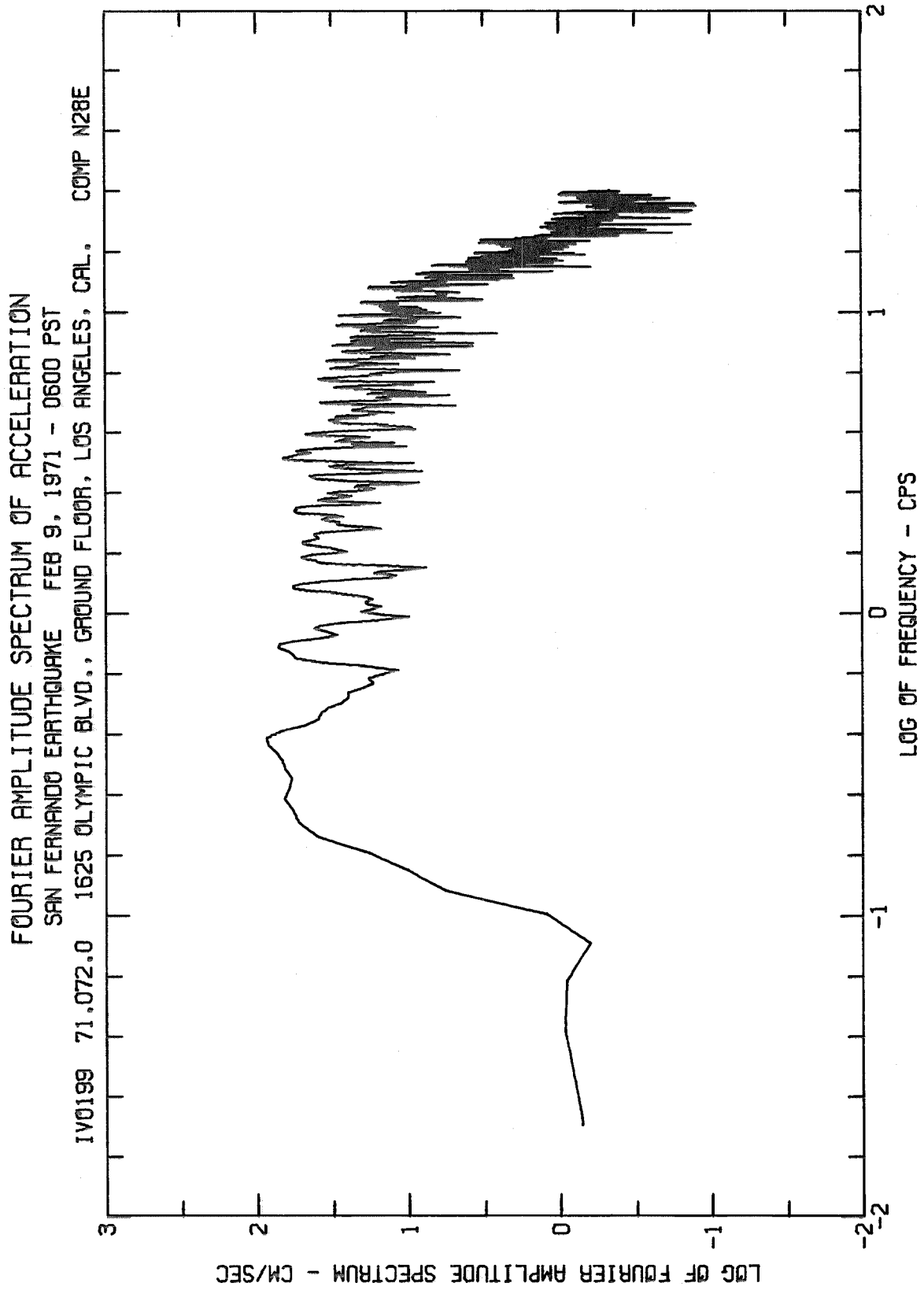


FOURIER AMPLITUDE SPECTRUM OF ACCELERATION

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IV0199 71.072.0 1625 OLYMPIC BLVD., GROUND FLOOR, LOS ANGELES, CAL. COMP N28E

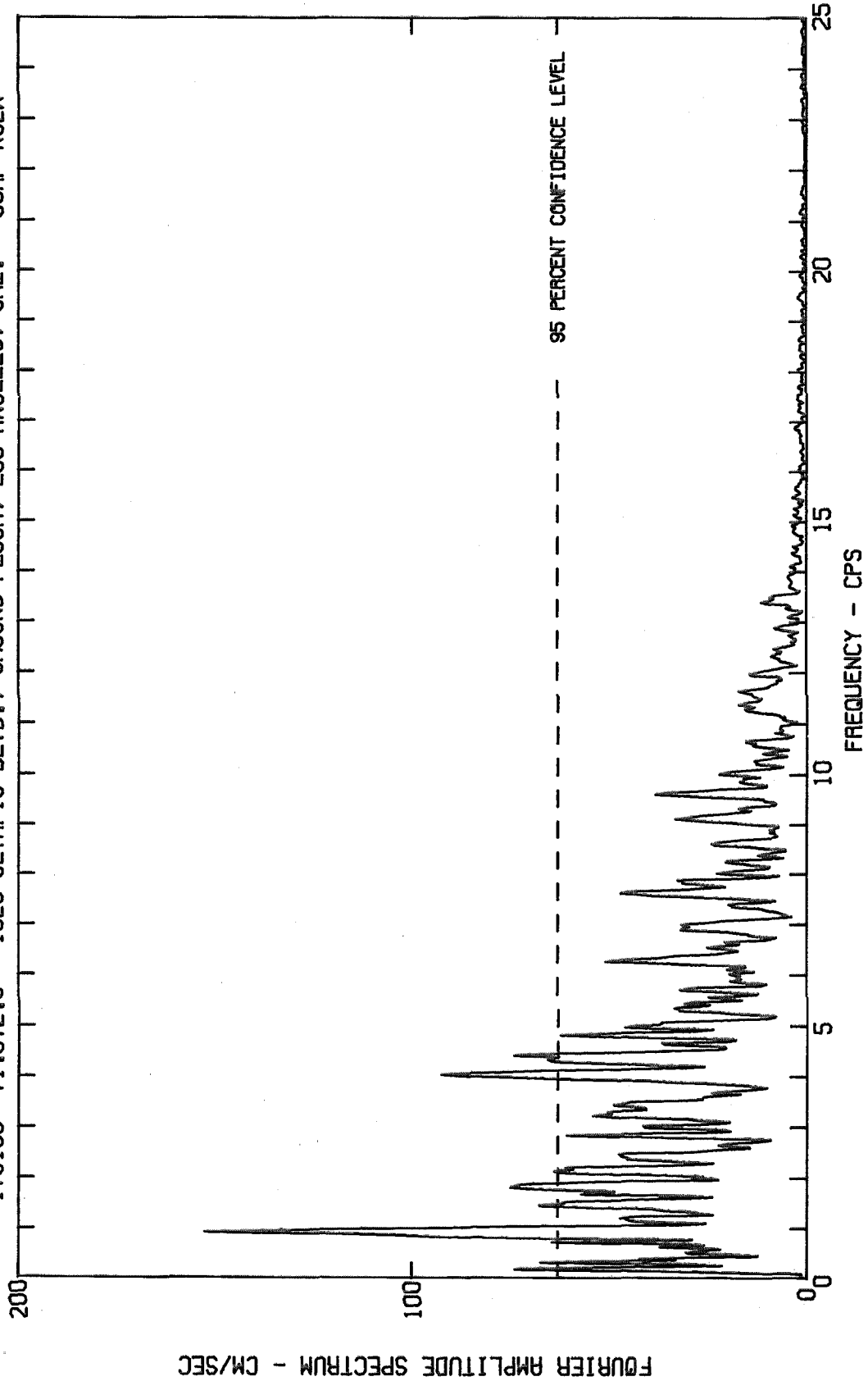




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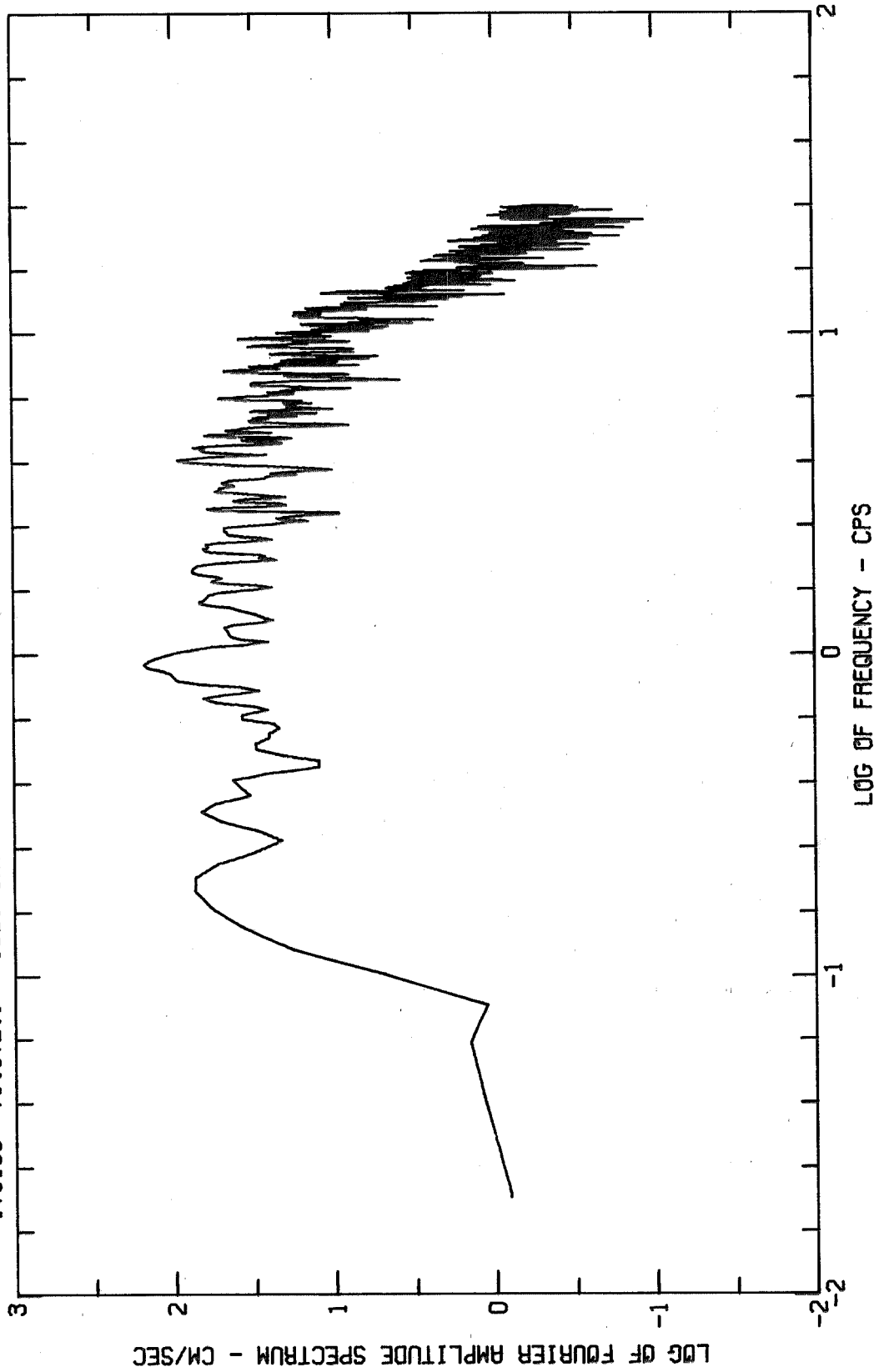
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FOURIER AMPLITUDE SPECTRUM OF ACCELERATION

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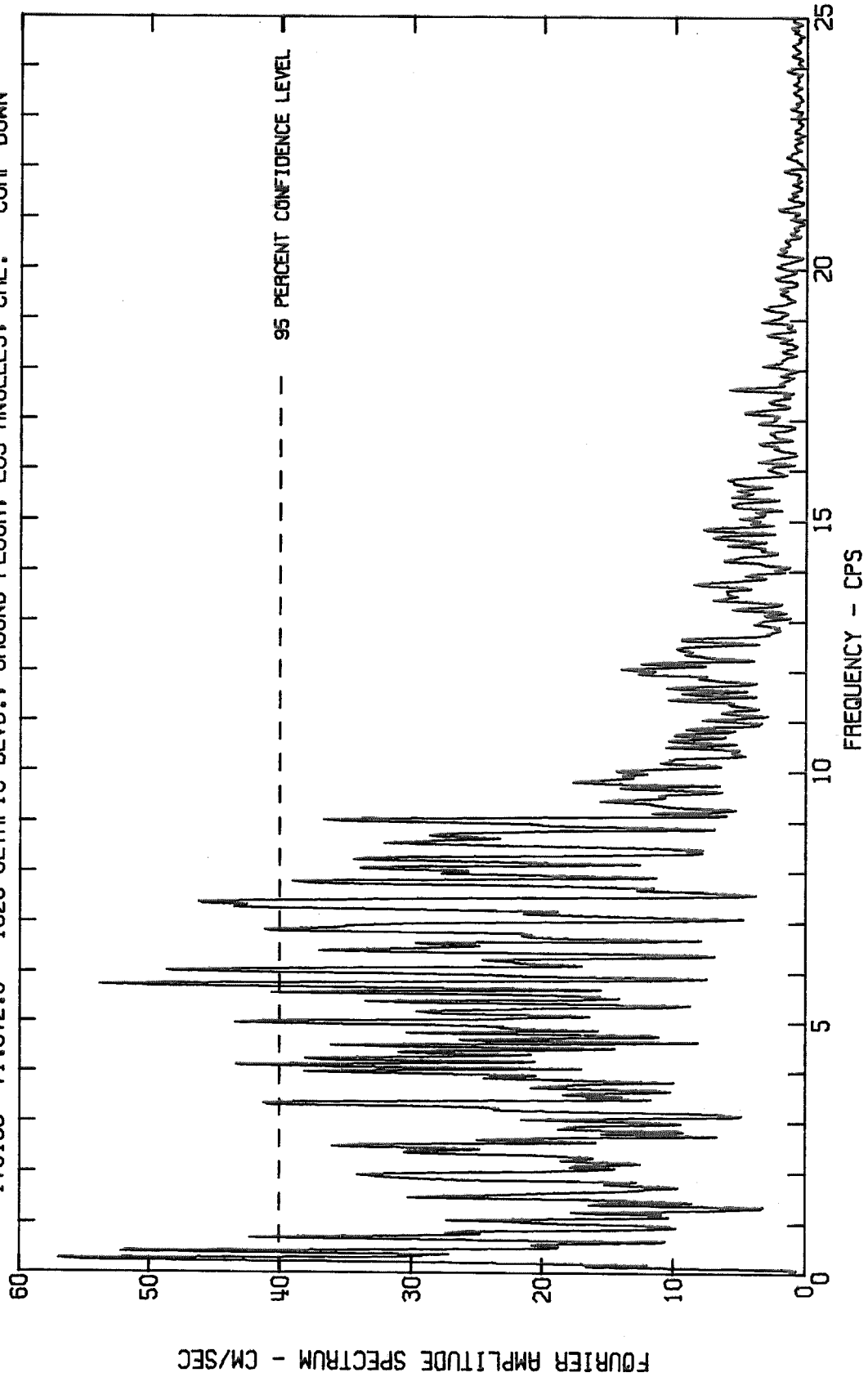
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FOURIER AMPLITUDE SPECTRUM OF ACCELERATION

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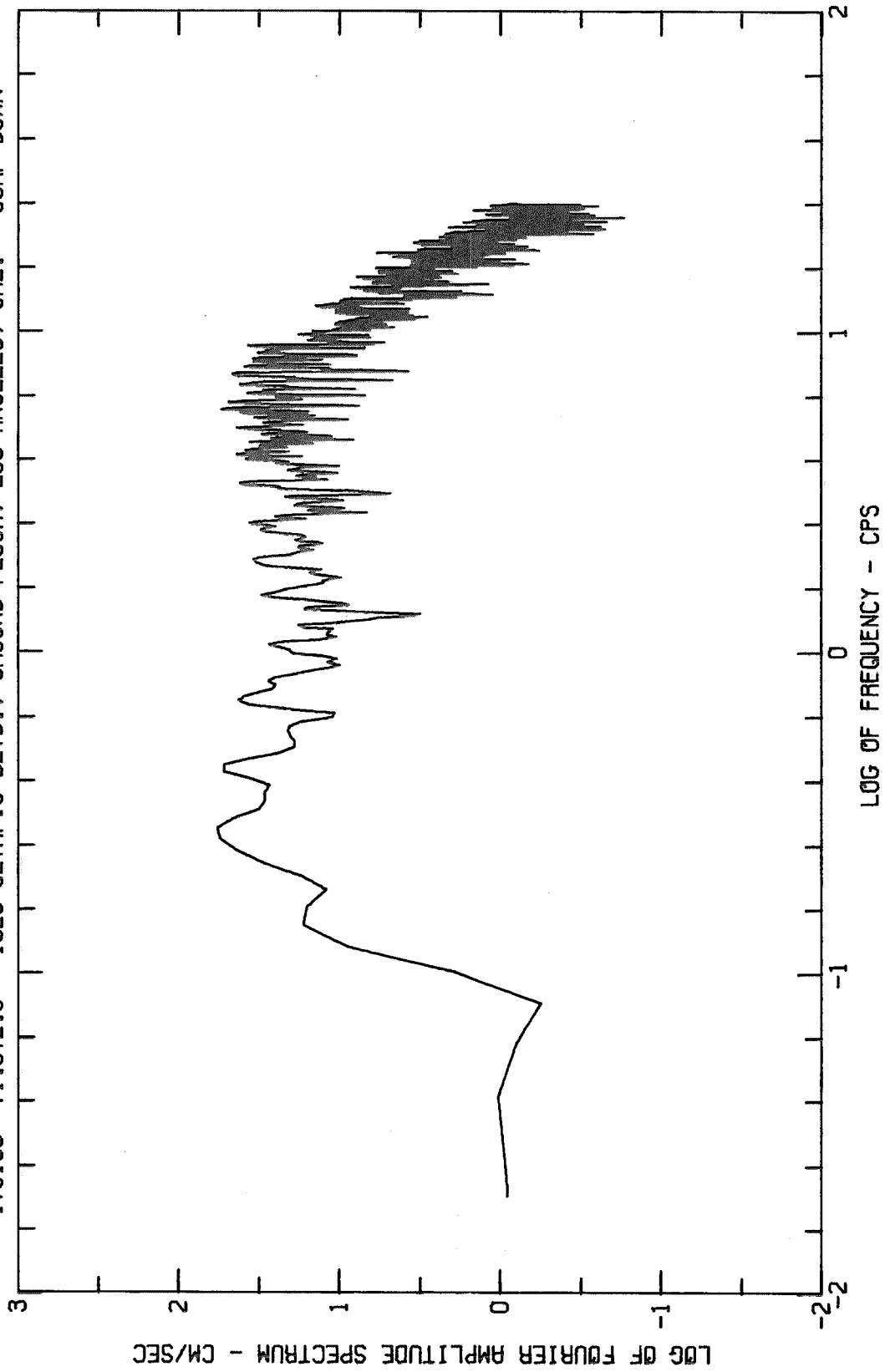
IV0199 71.072.0 1625 OLYMPIC BLVD., GROUND FLOOR, LOS ANGELES, CAL. COMP DOWN



FOURIER AMPLITUDE SPECTRUM OF ACCELERATION

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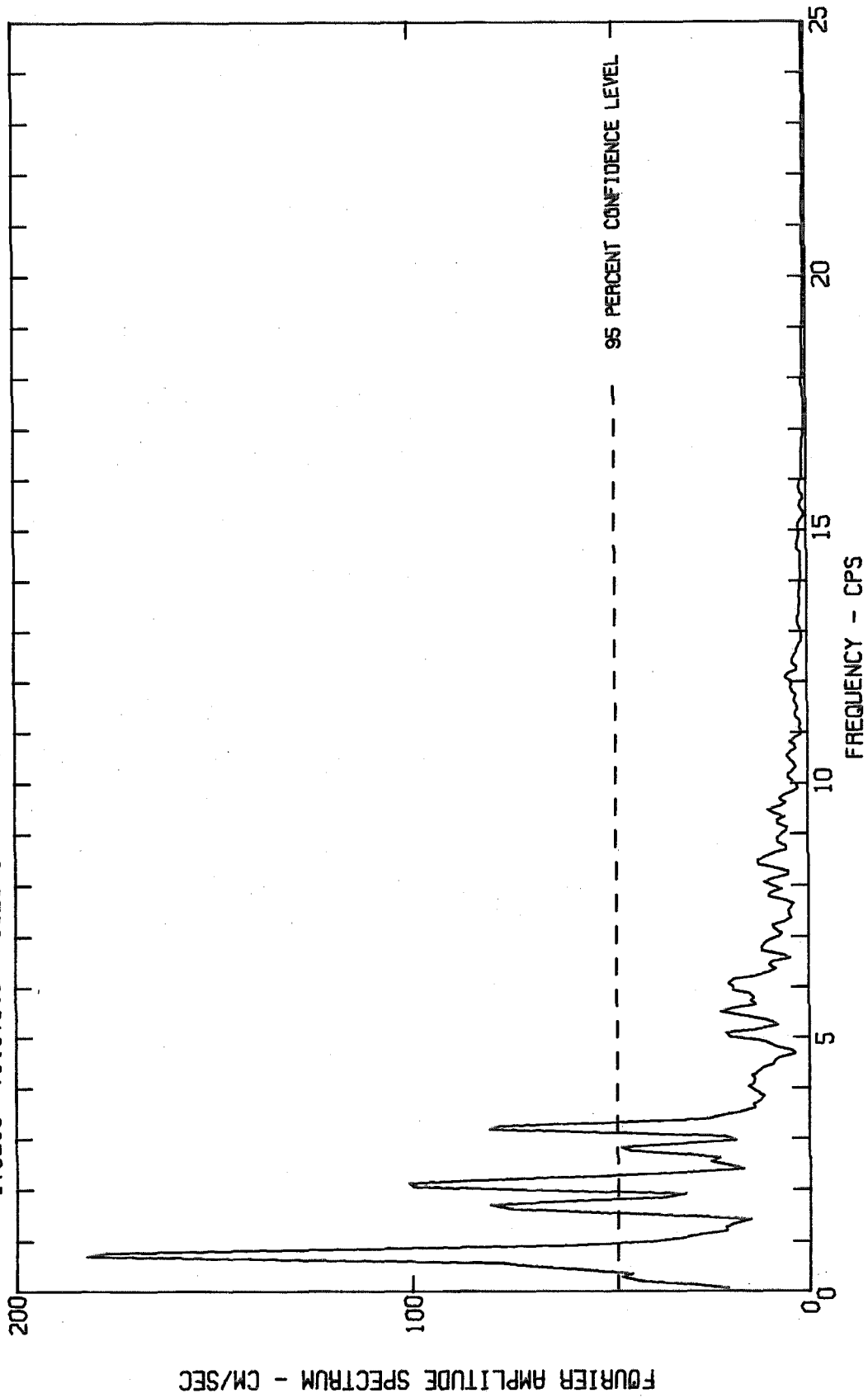
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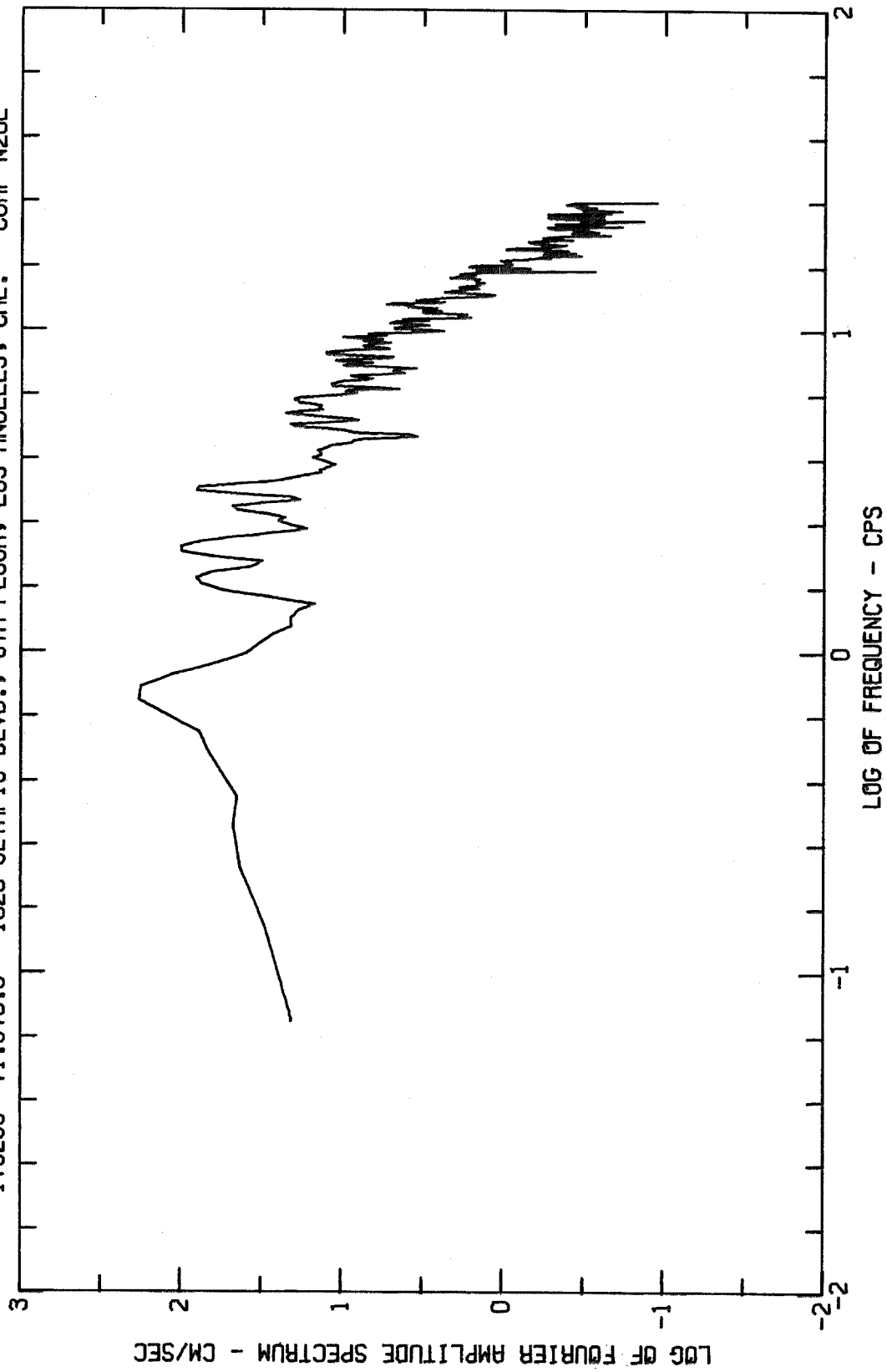
FOURIER AMPLITUDE SPECTRUM OF ACCELERATION

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1V0200 71.075.0 1625 OLYMPIC BLVD., 6TH FLOOR, LOS ANGELES, CAL. COMP N28E



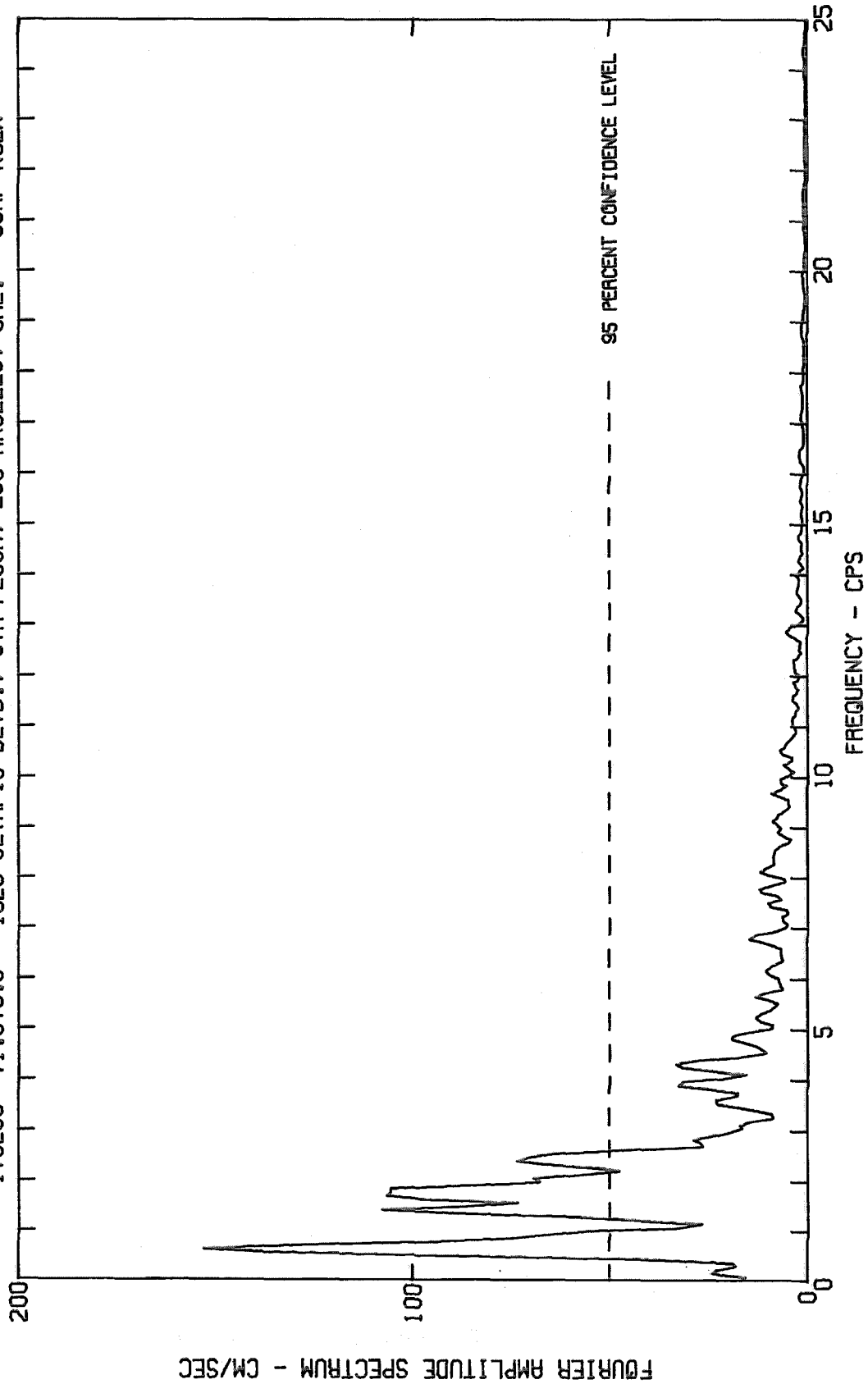
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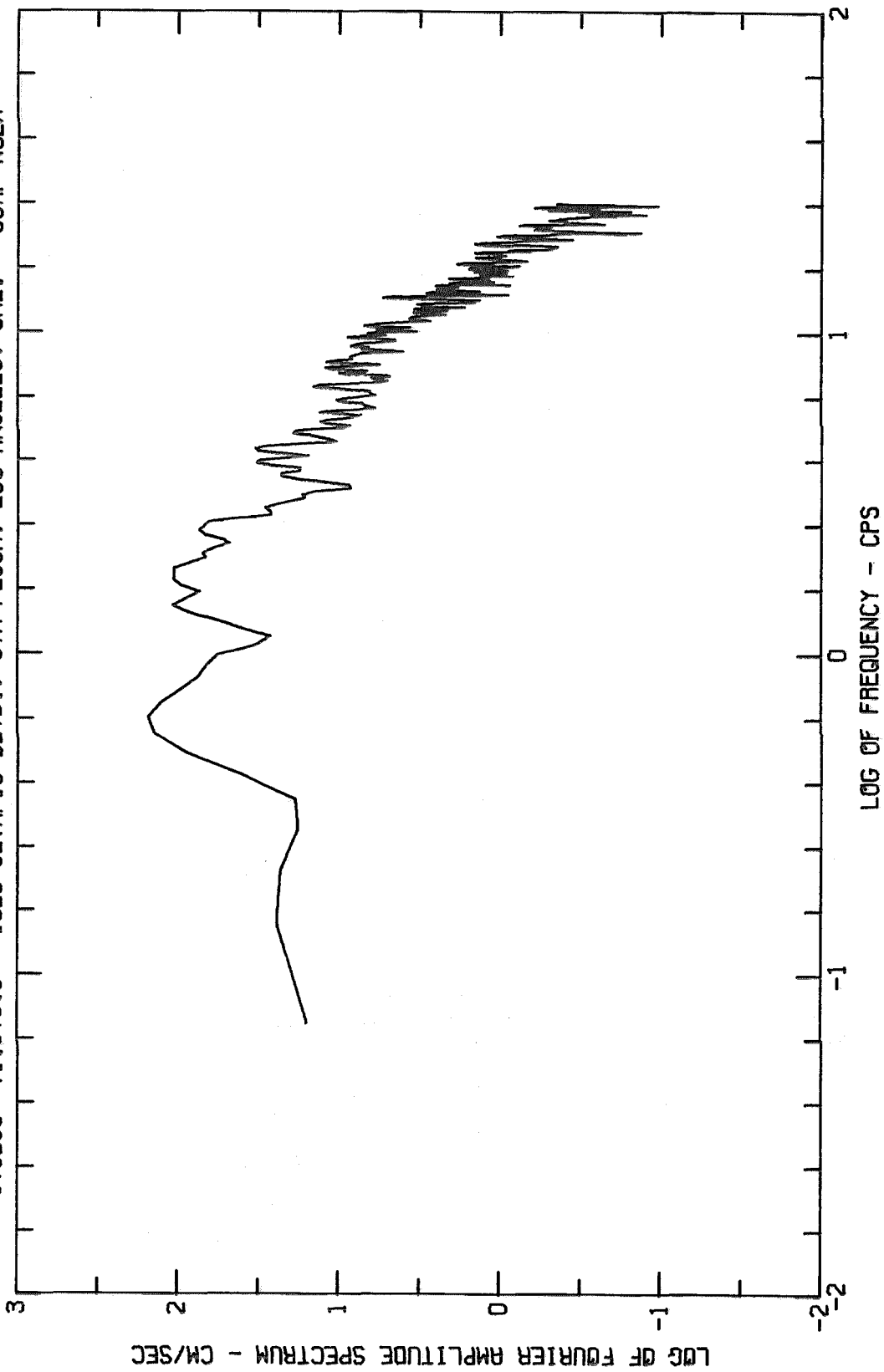
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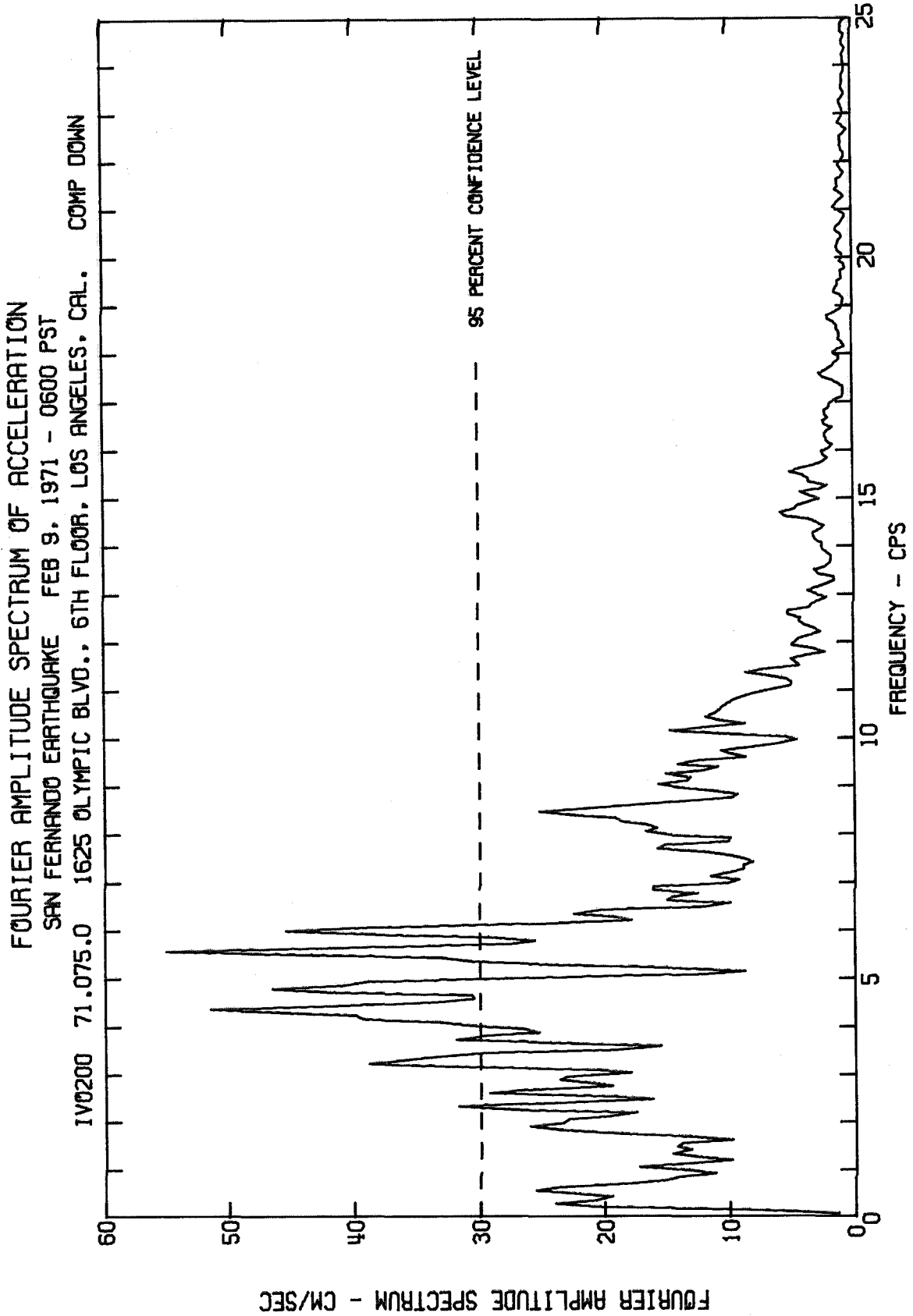
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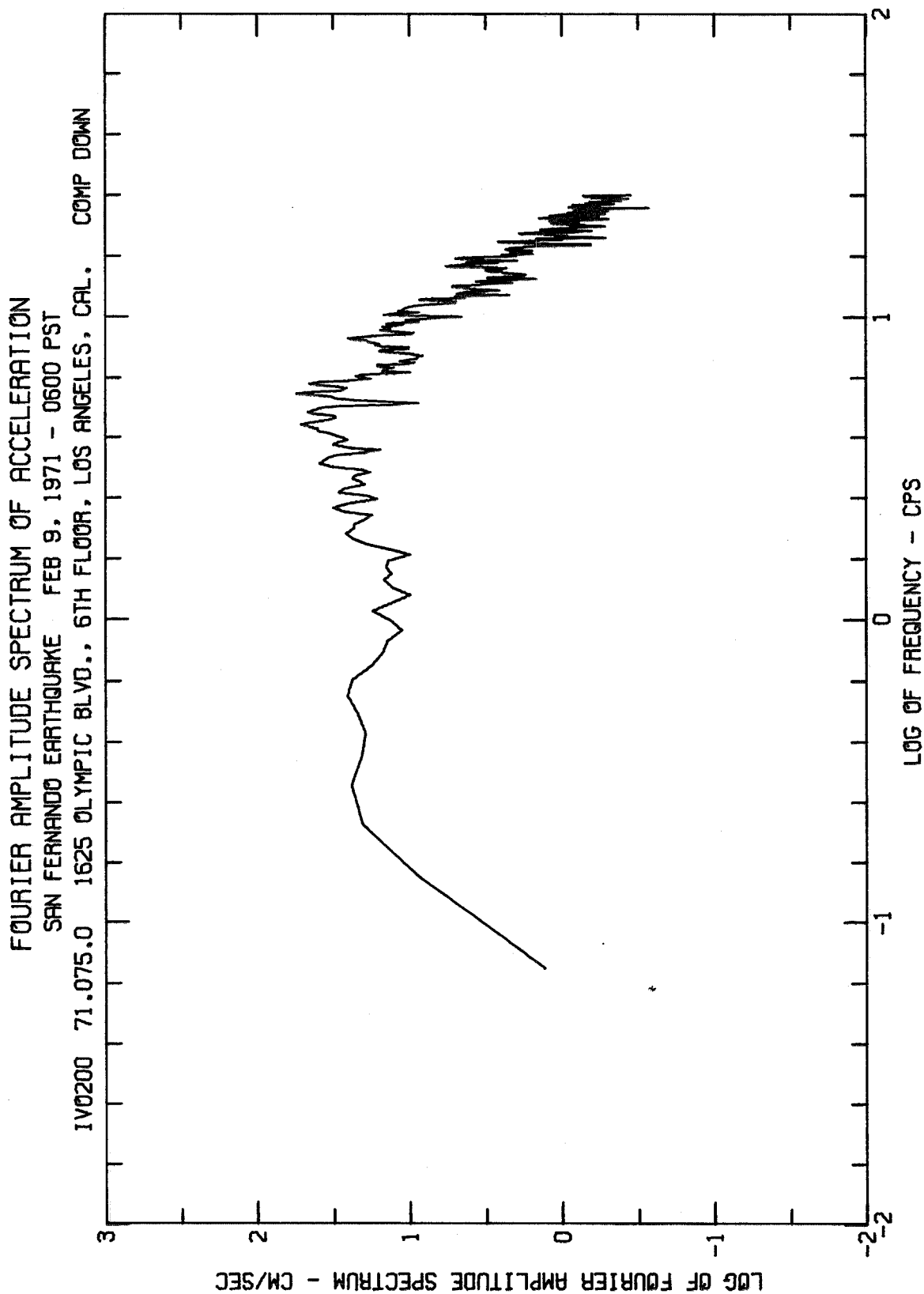
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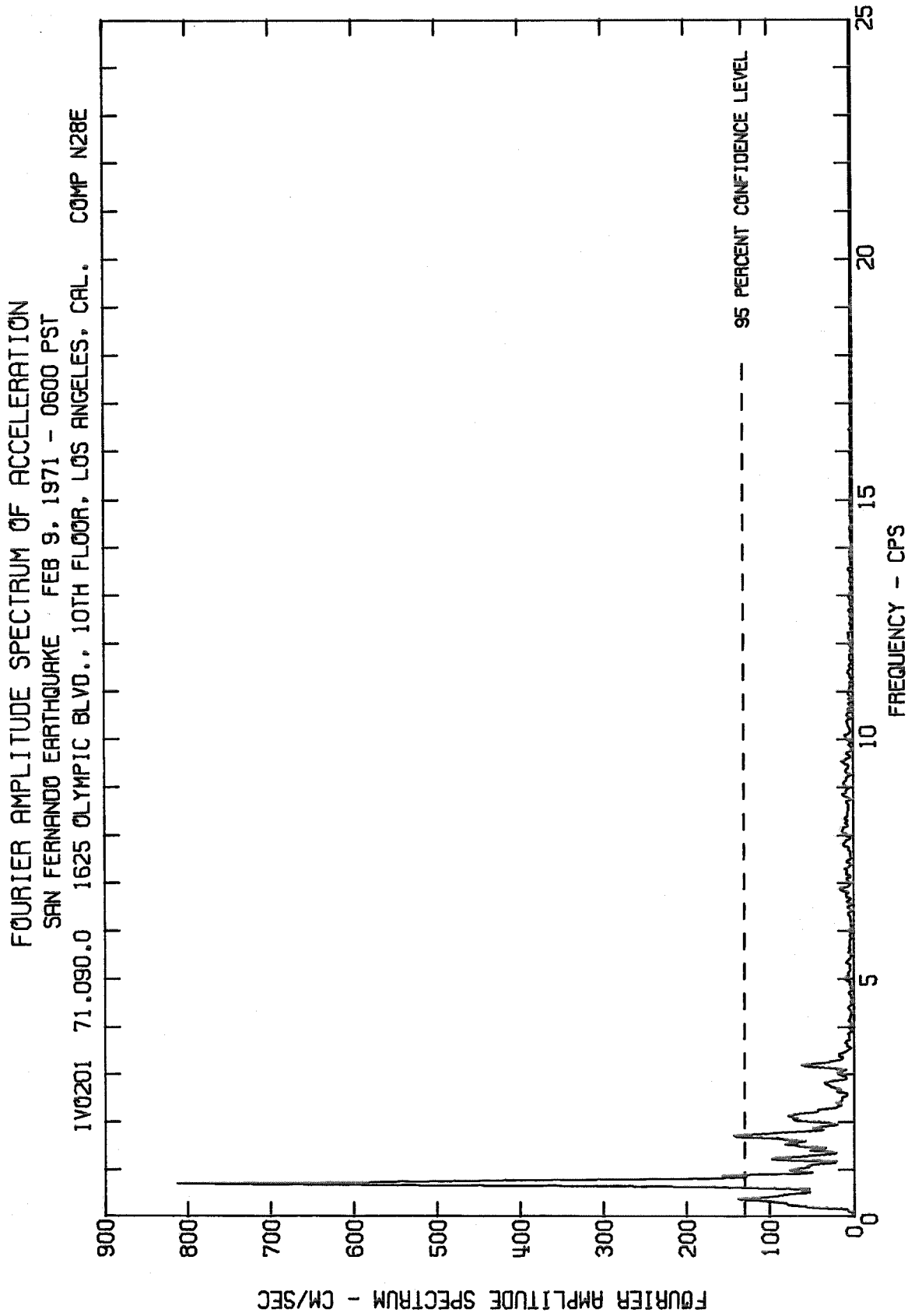


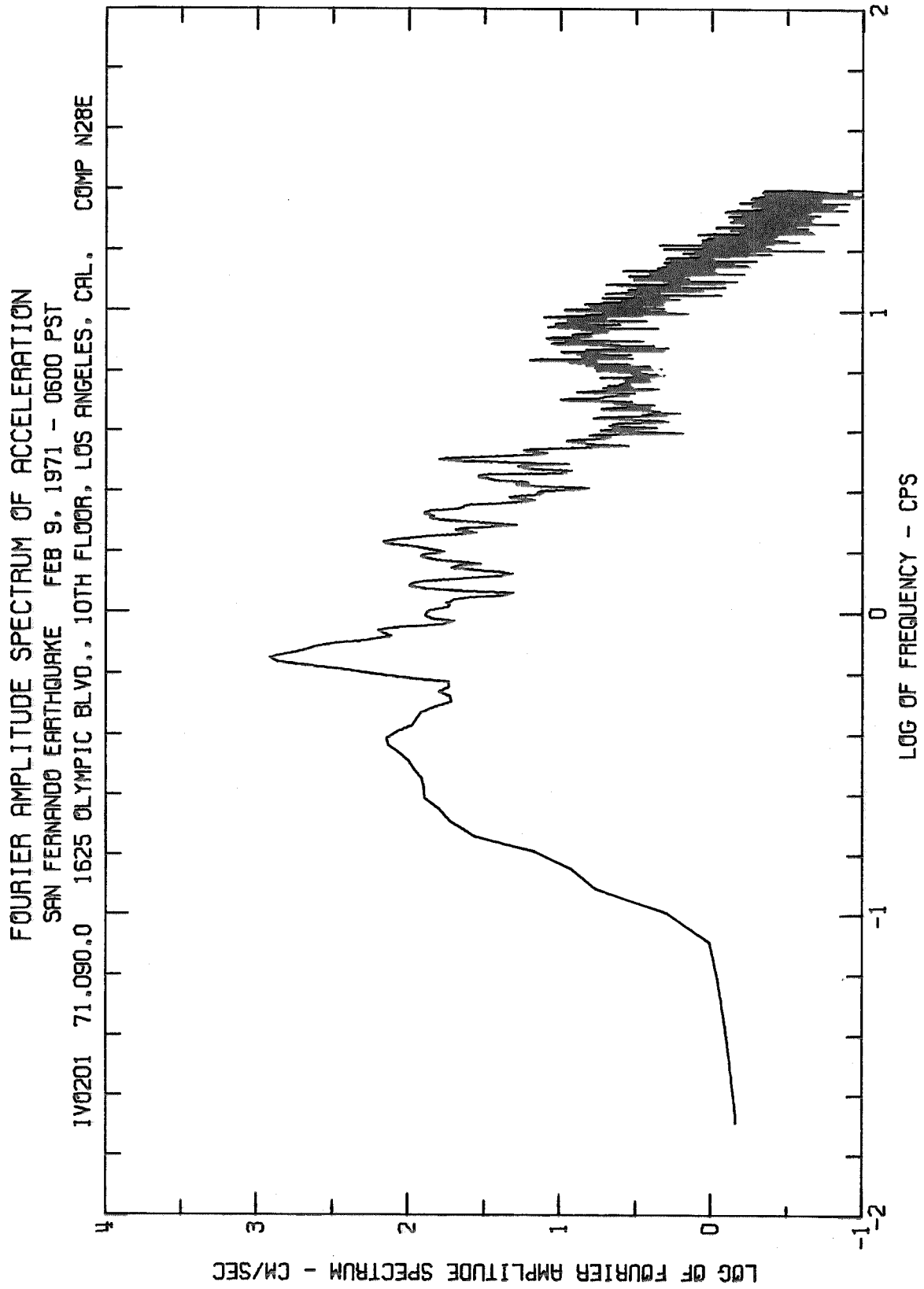
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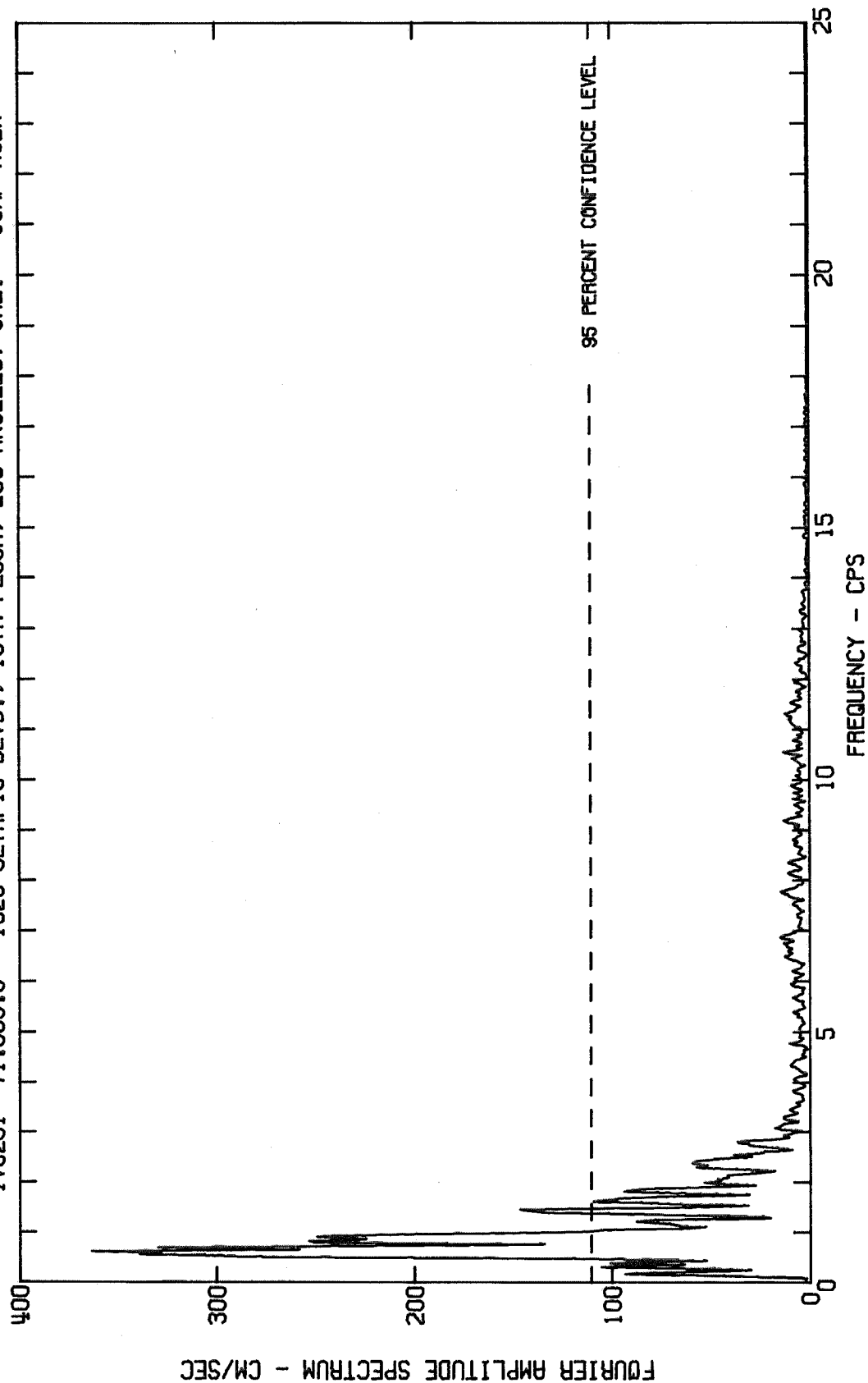




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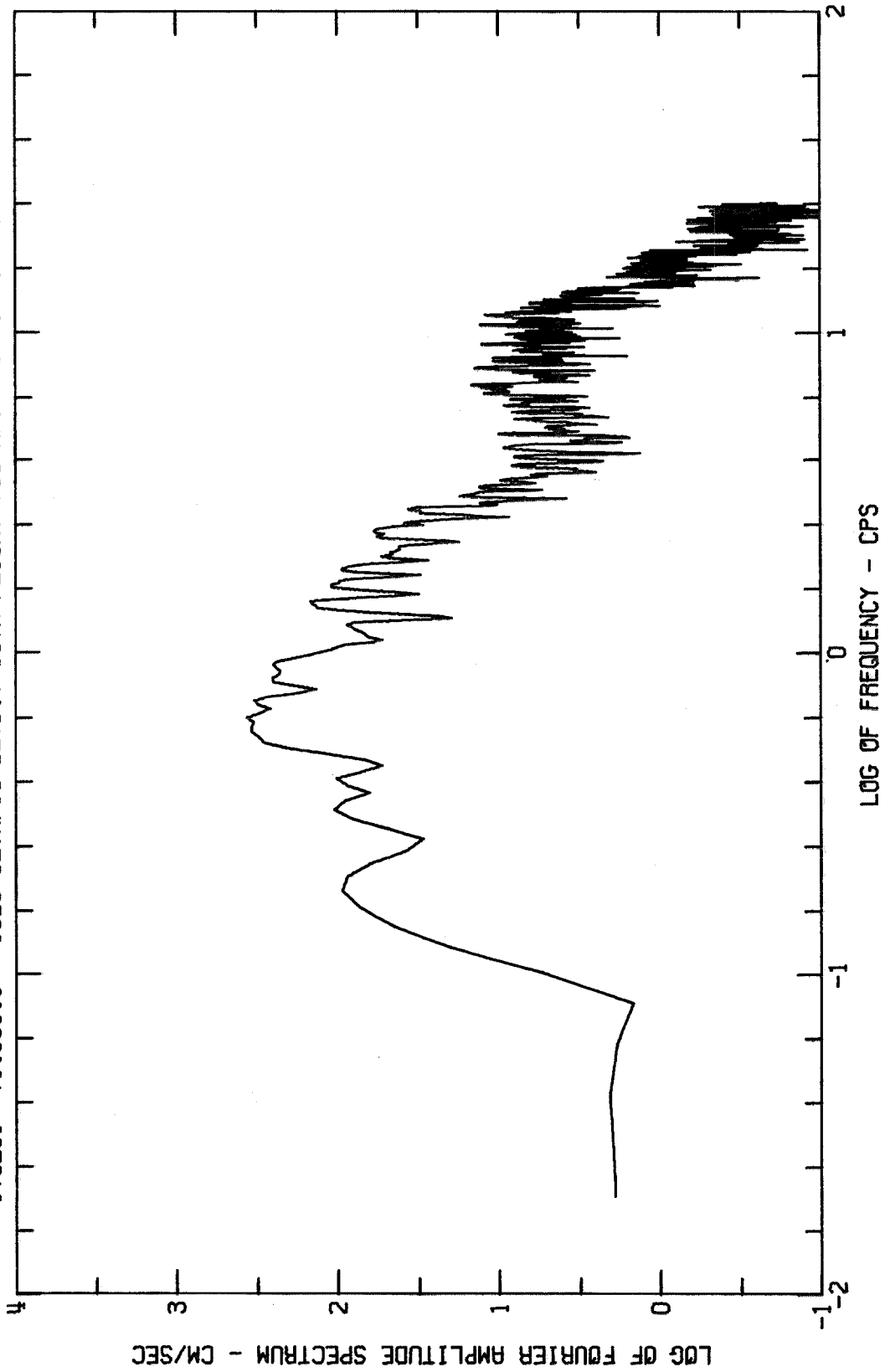
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FOURIER AMPLITUDE SPECTRUM OF ACCELERATION

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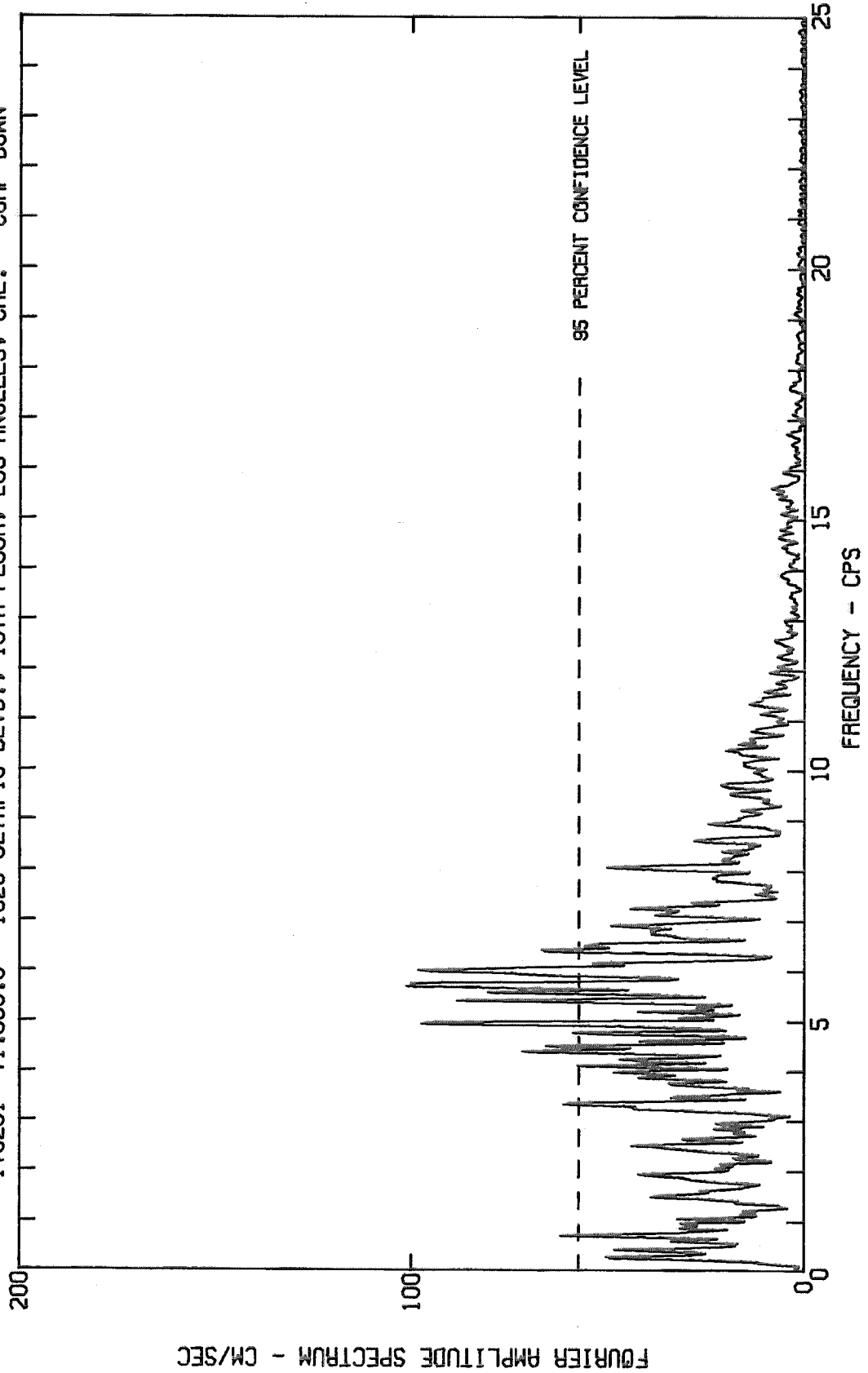
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FOURIER AMPLITUDE SPECTRUM OF ACCELERATION

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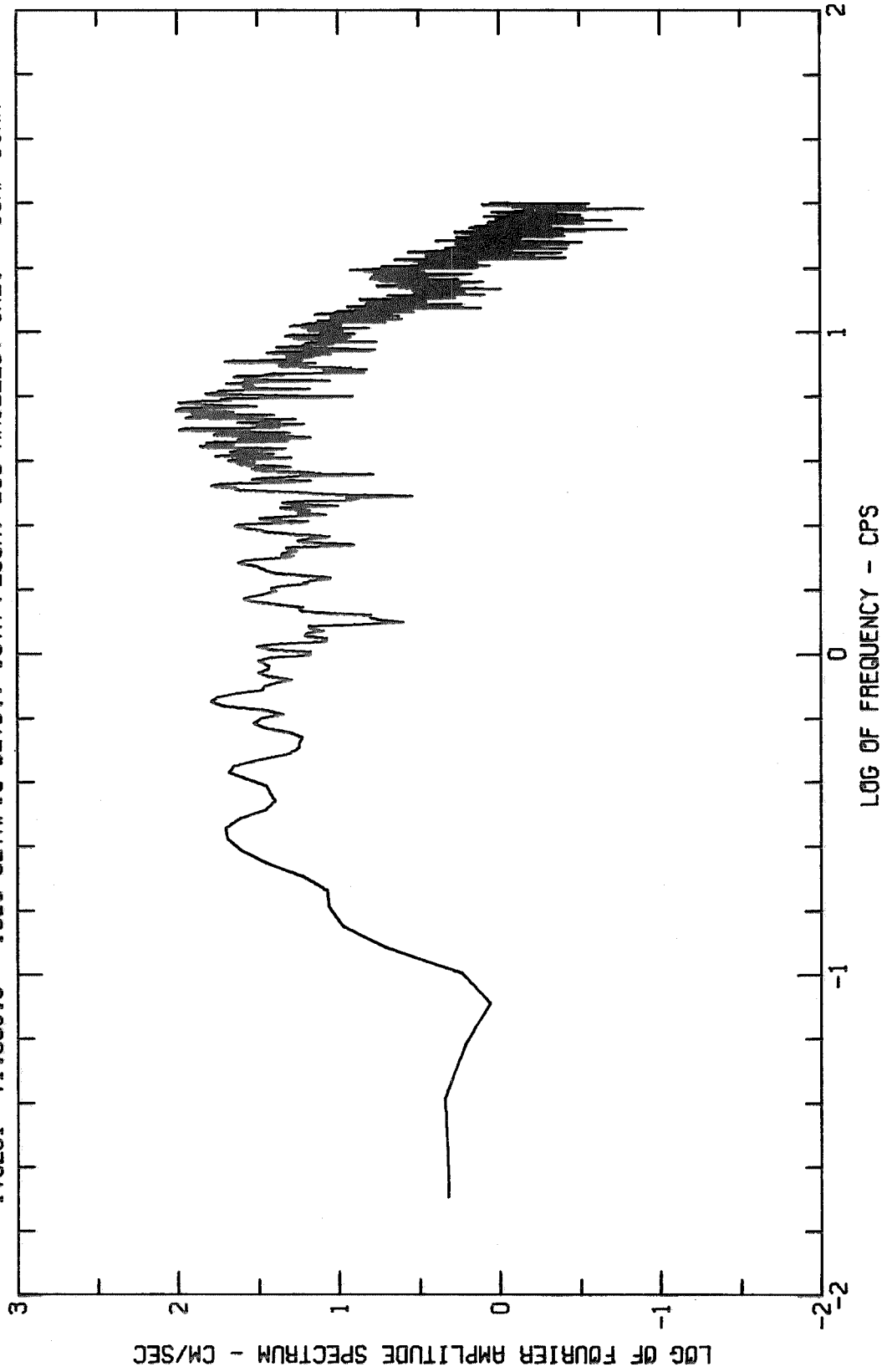
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FOURIER AMPLITUDE SPECTRUM OF ACCELERATION

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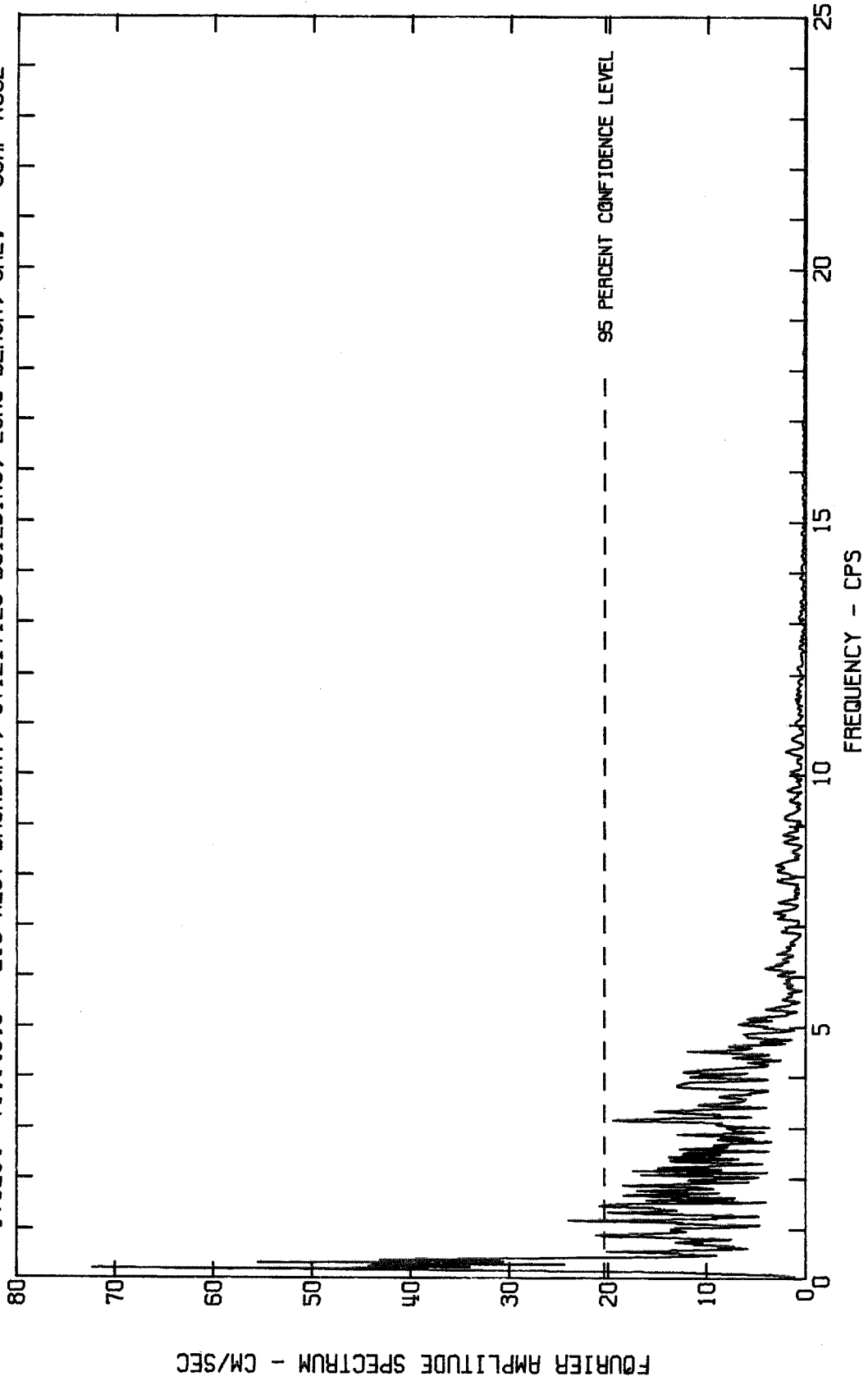
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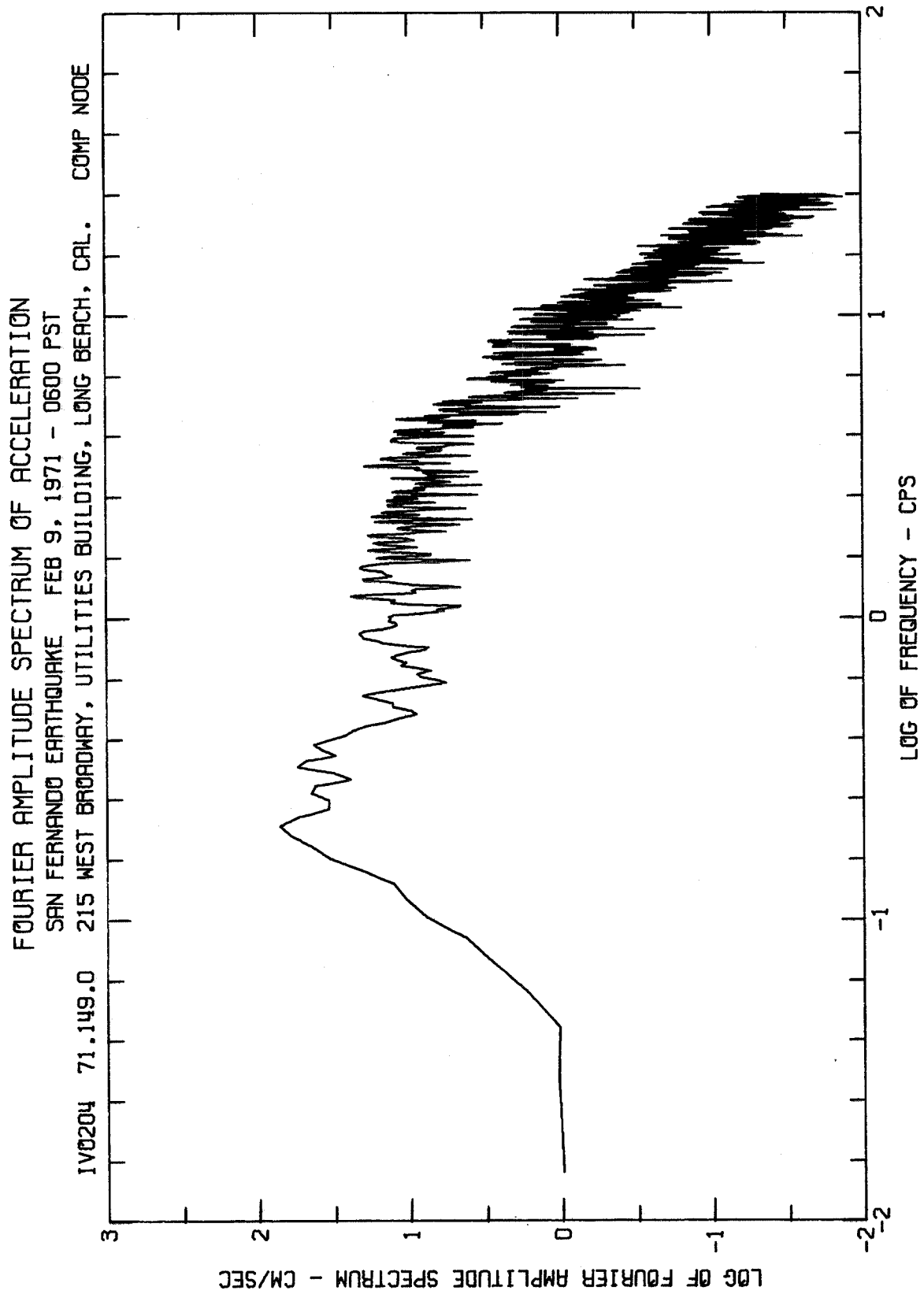


FOURIER AMPLITUDE SPECTRUM OF ACCELERATION

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

IV0204 71.149.0 215 WEST BROADWAY, UTILITIES BUILDING, LONG BEACH, CAL. COMP NOOE

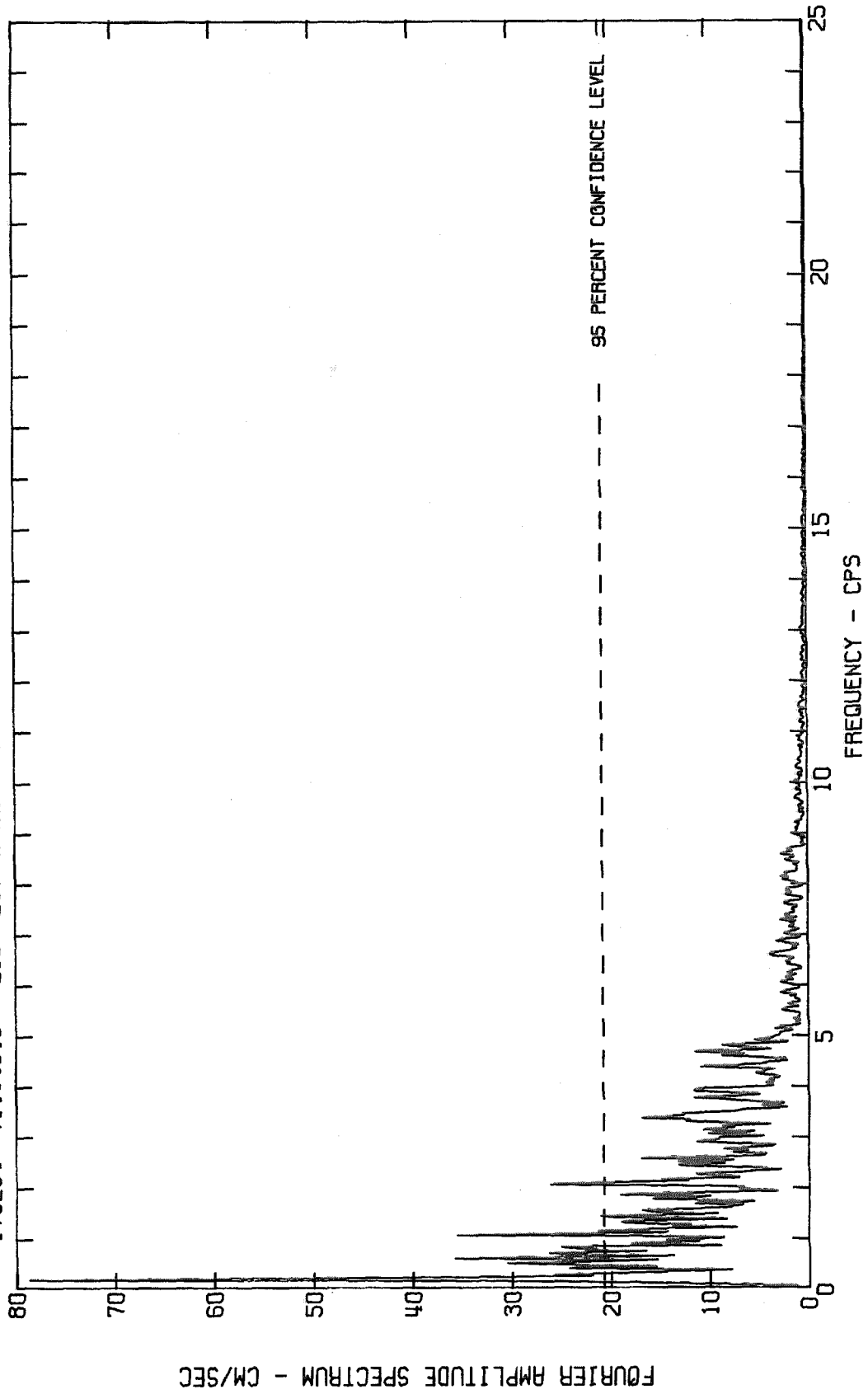




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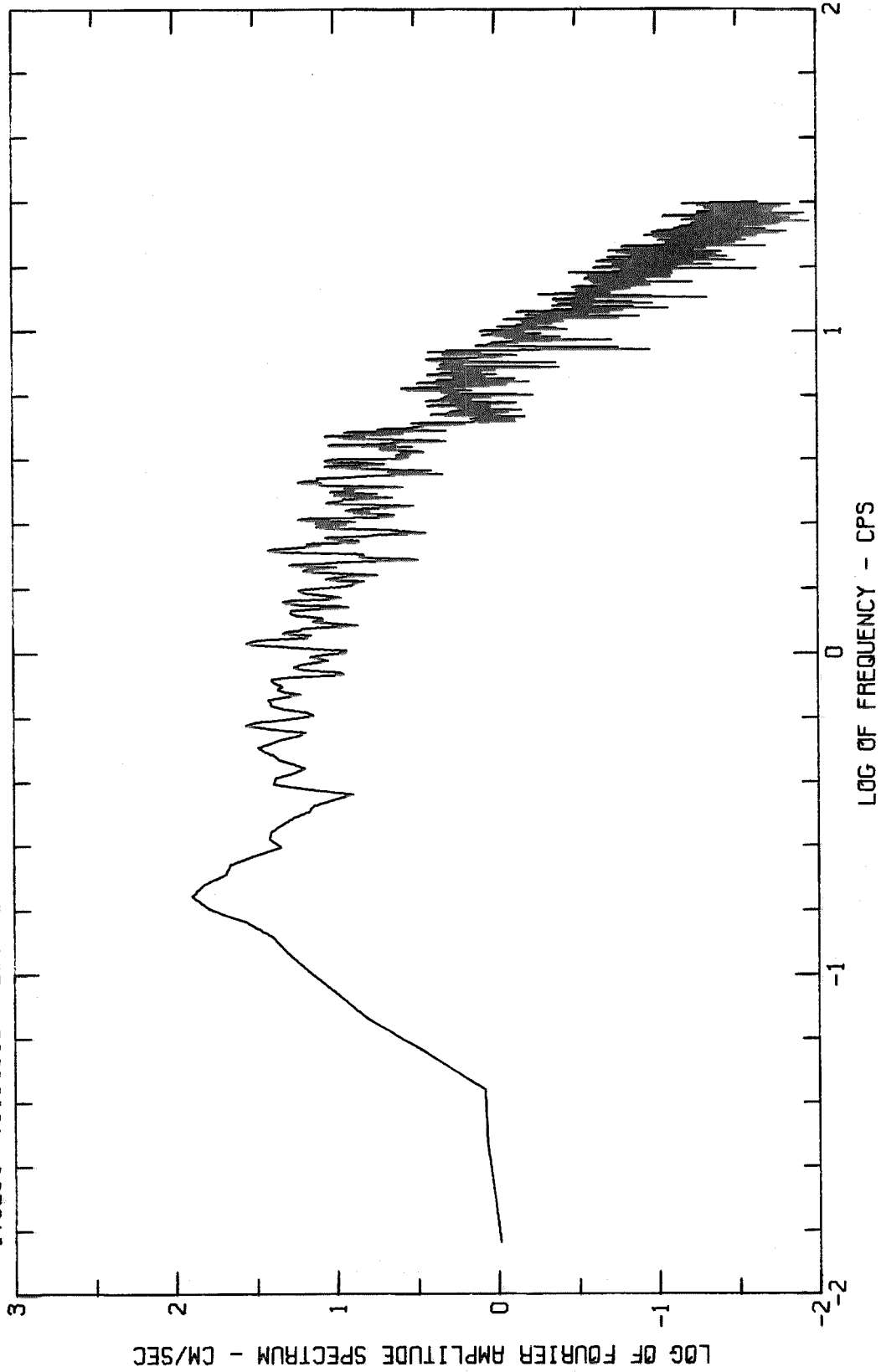
IV0204 71.149.0 215 WEST BROADWAY, UTILITIES BUILDING, LONG BEACH, CAL. COMP N90E



FOURIER AMPLITUDE SPECTRUM OF ACCELERATION

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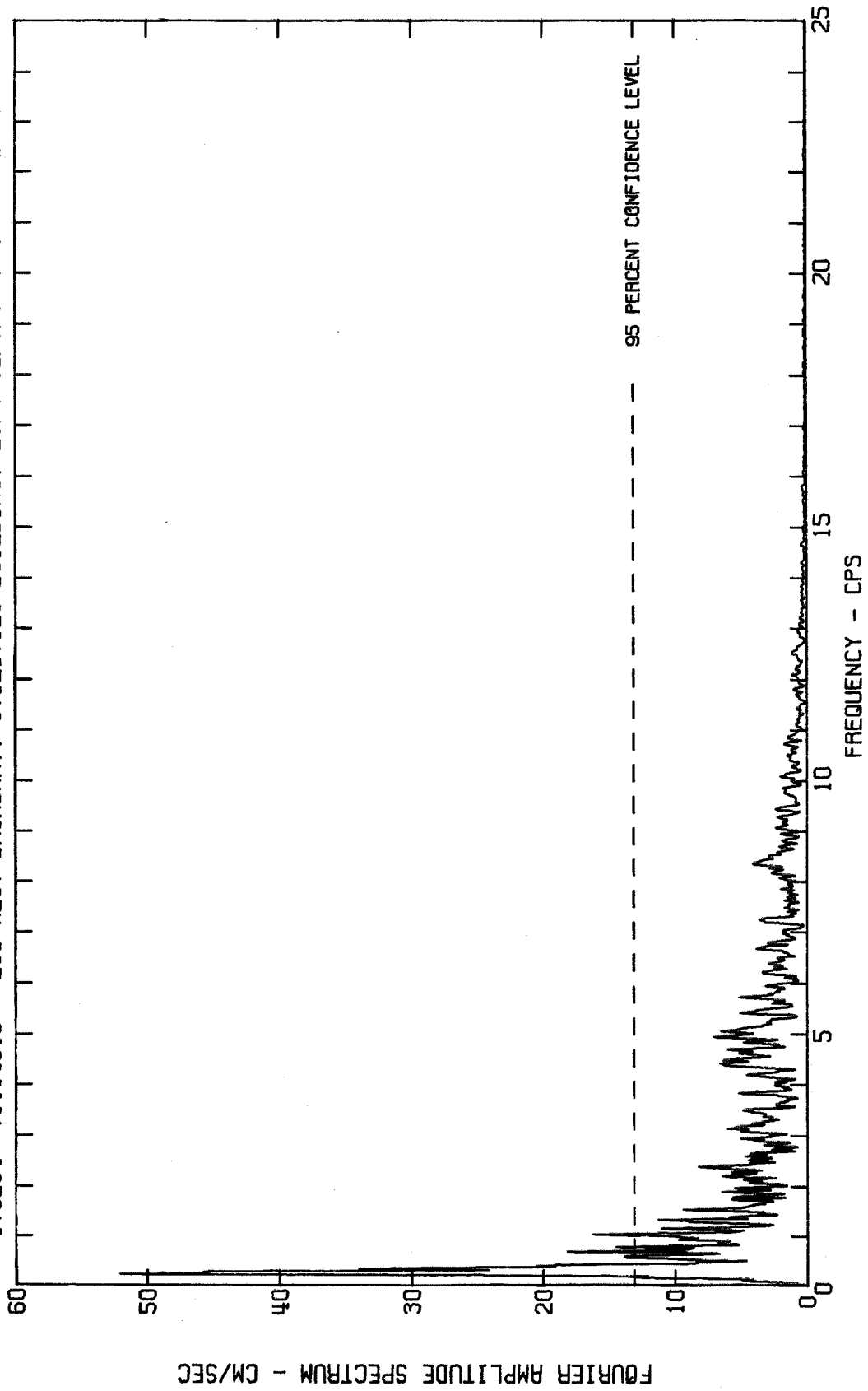
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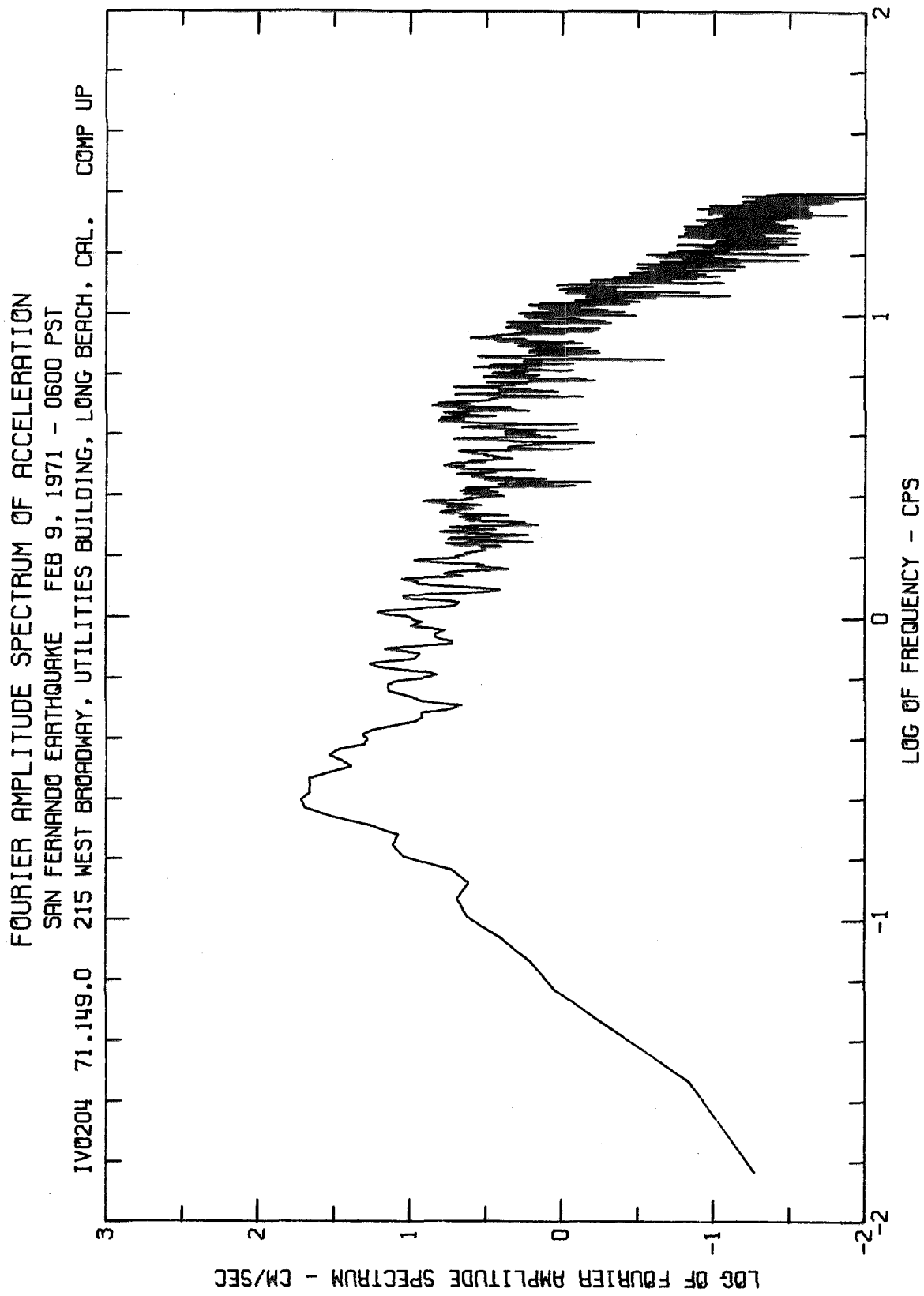


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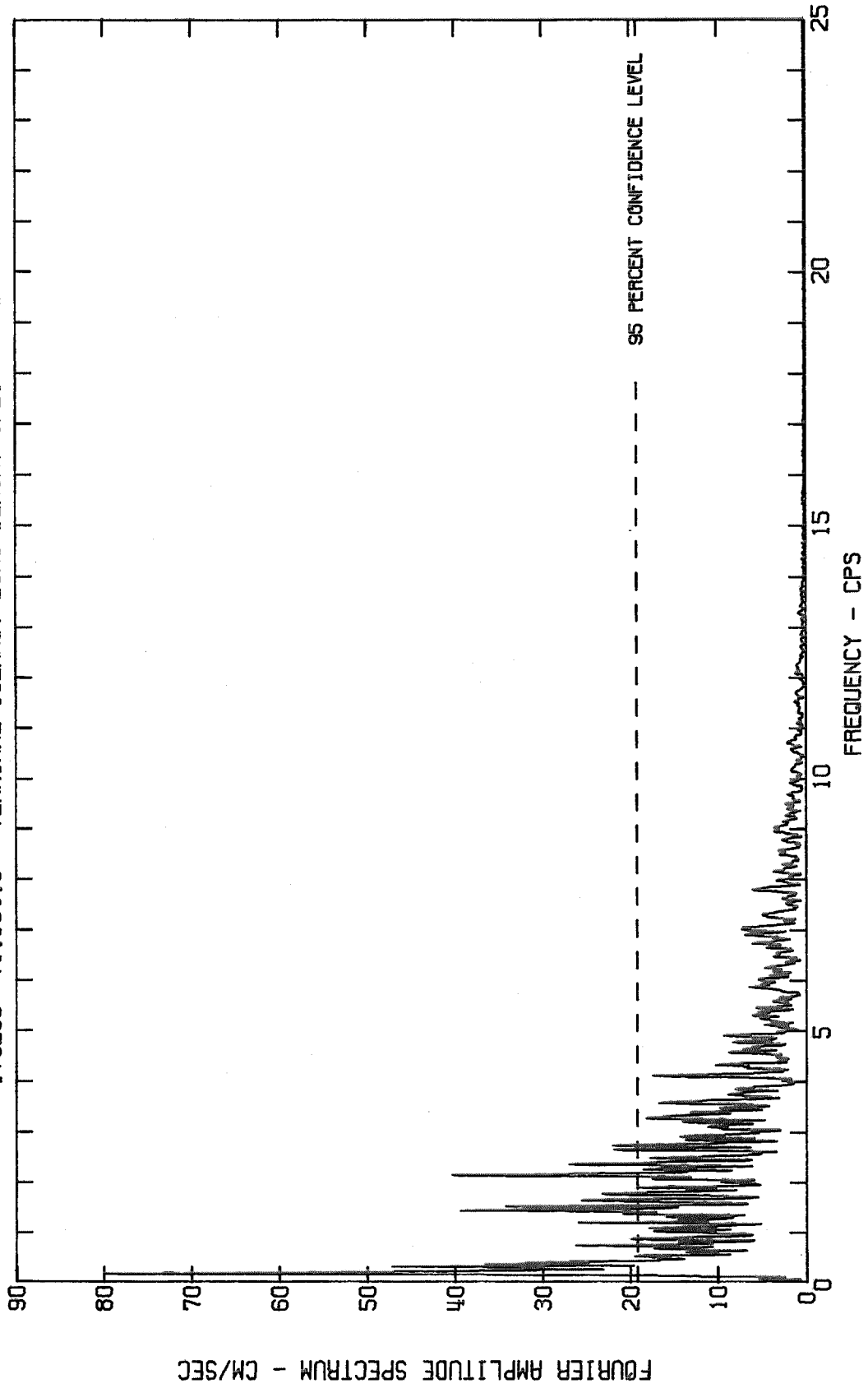
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IV0204 71.149.0 215 WEST BROADWAY, UTILITIES BUILDING, LONG BEACH, CAL. COMP UP





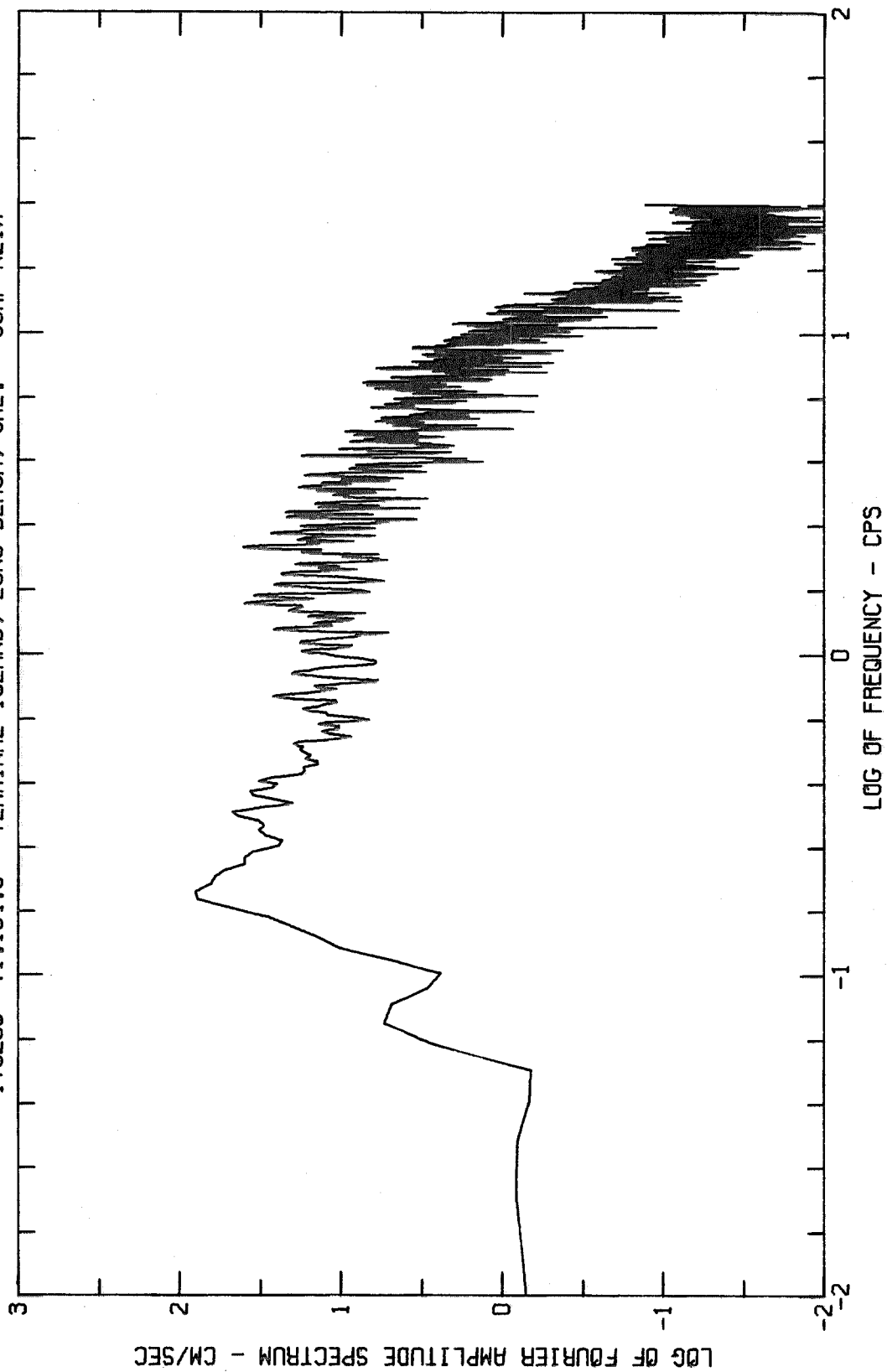
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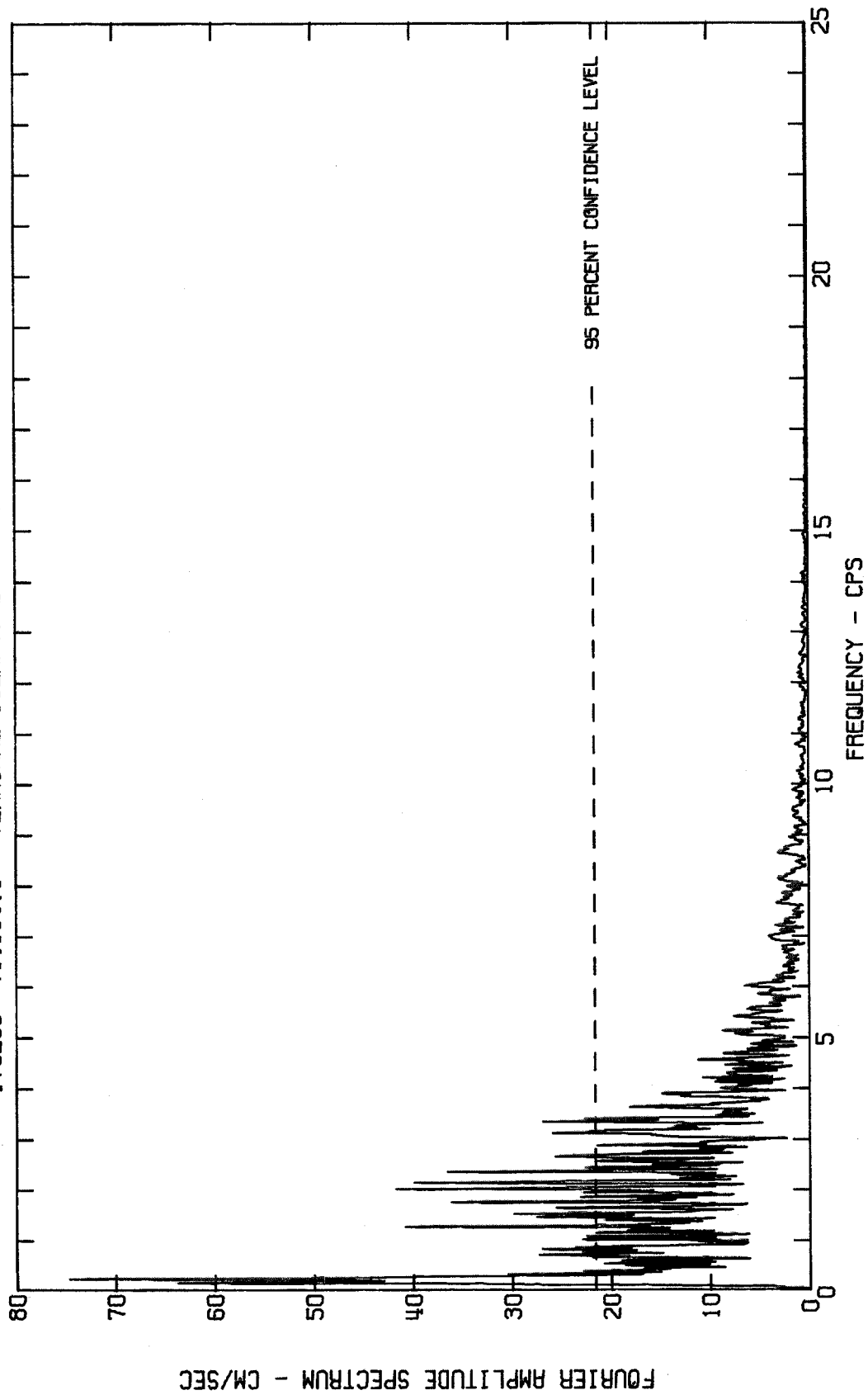
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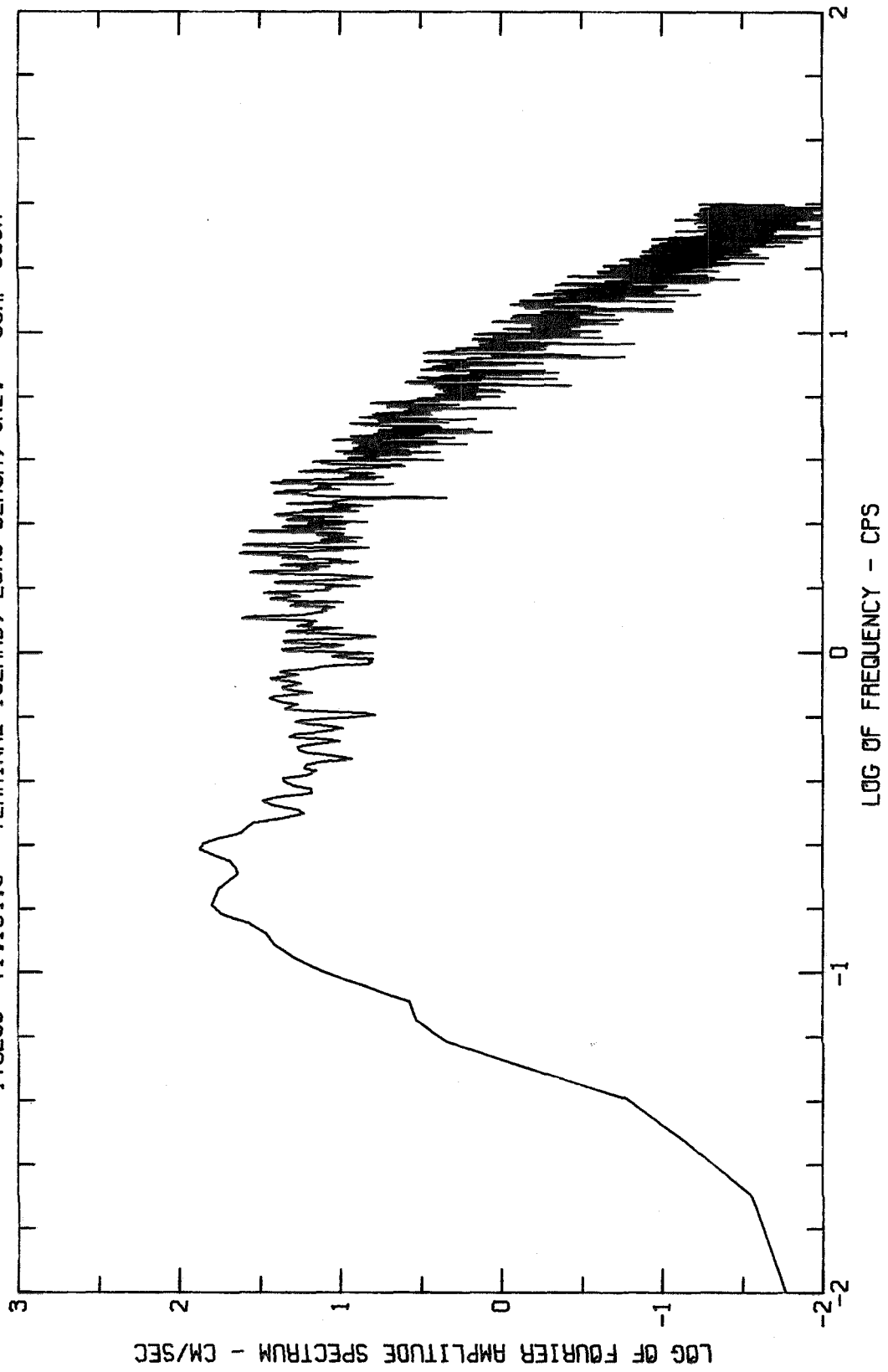
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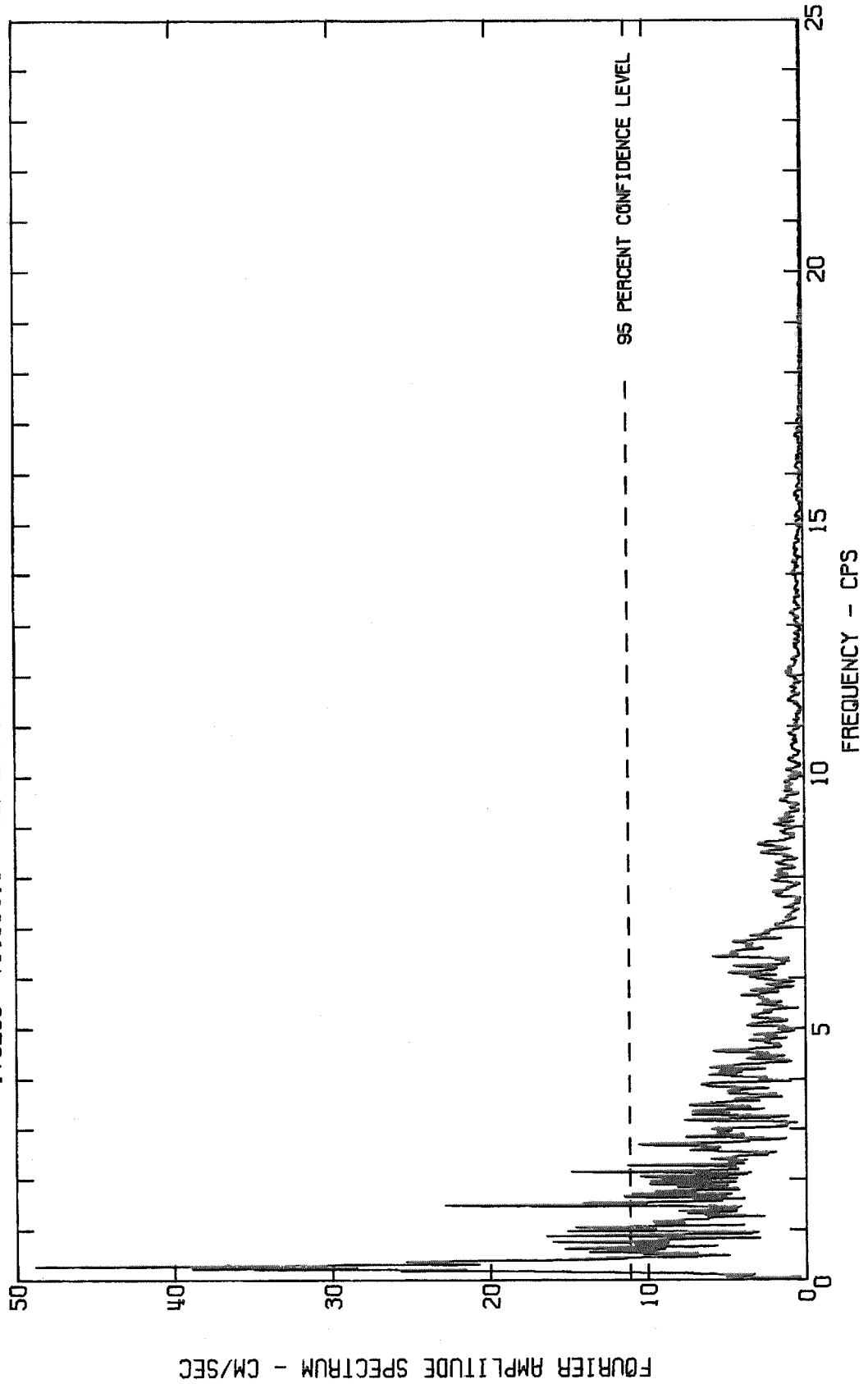
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1V0205 71.154.0 TERMINAL ISLAND, LONG BEACH, CAL. COMP S69W



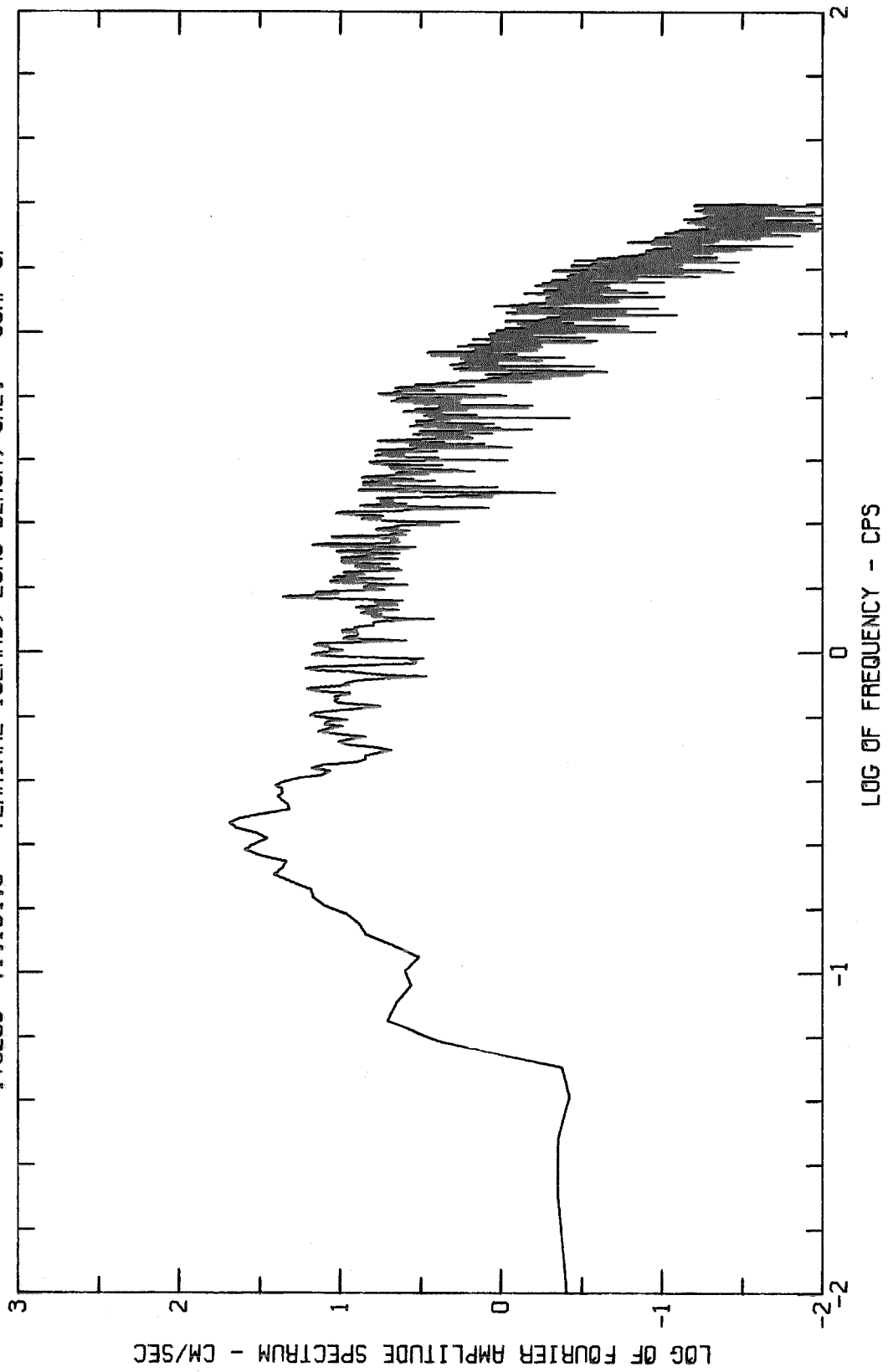
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1V0205 71.154.0 TERMINAL ISLAND, LONG BEACH, CAL. COMP S69W



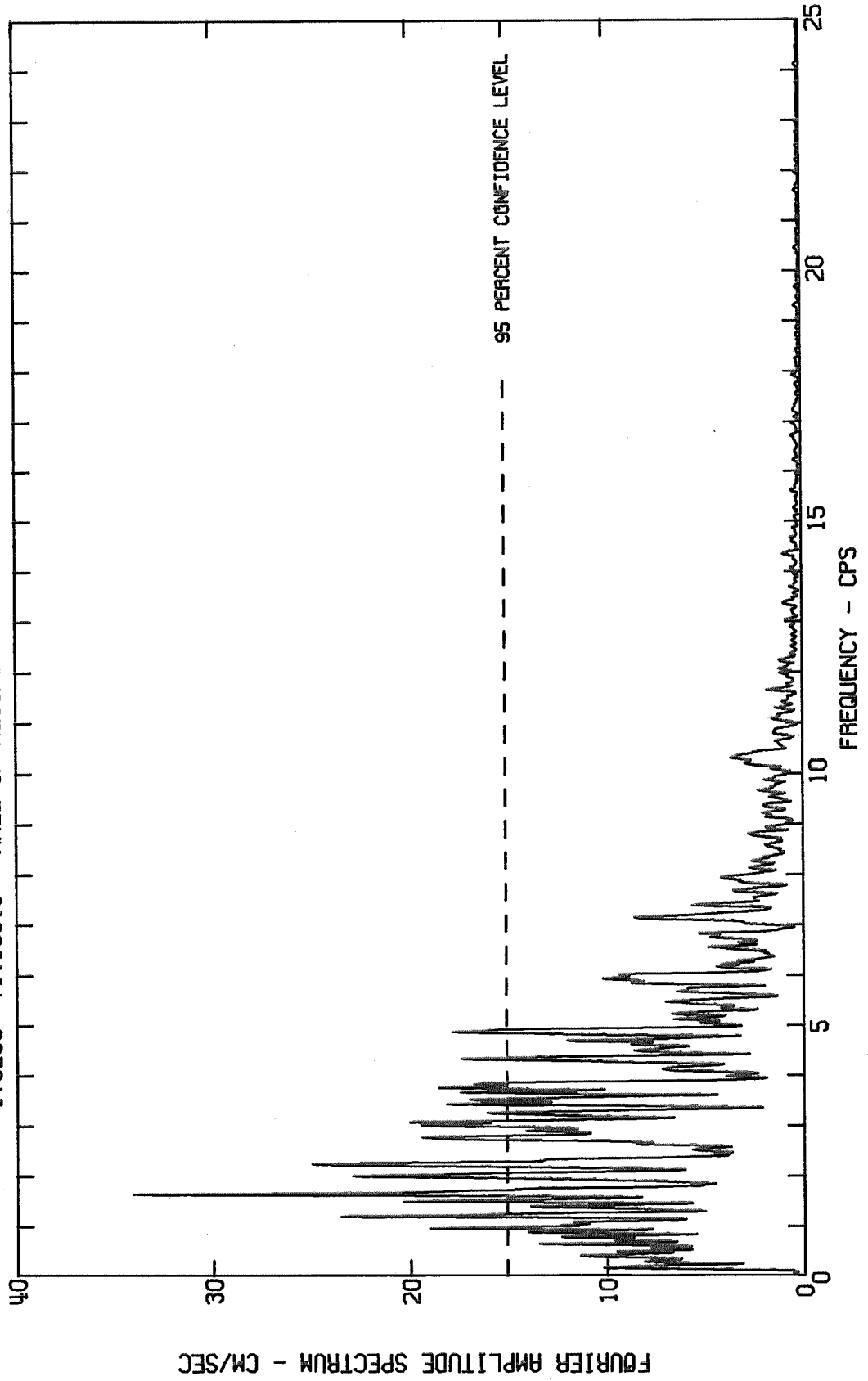
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IV0205 71.154.0 TERMINAL ISLAND, LONG BEACH, CAL. COMP UP



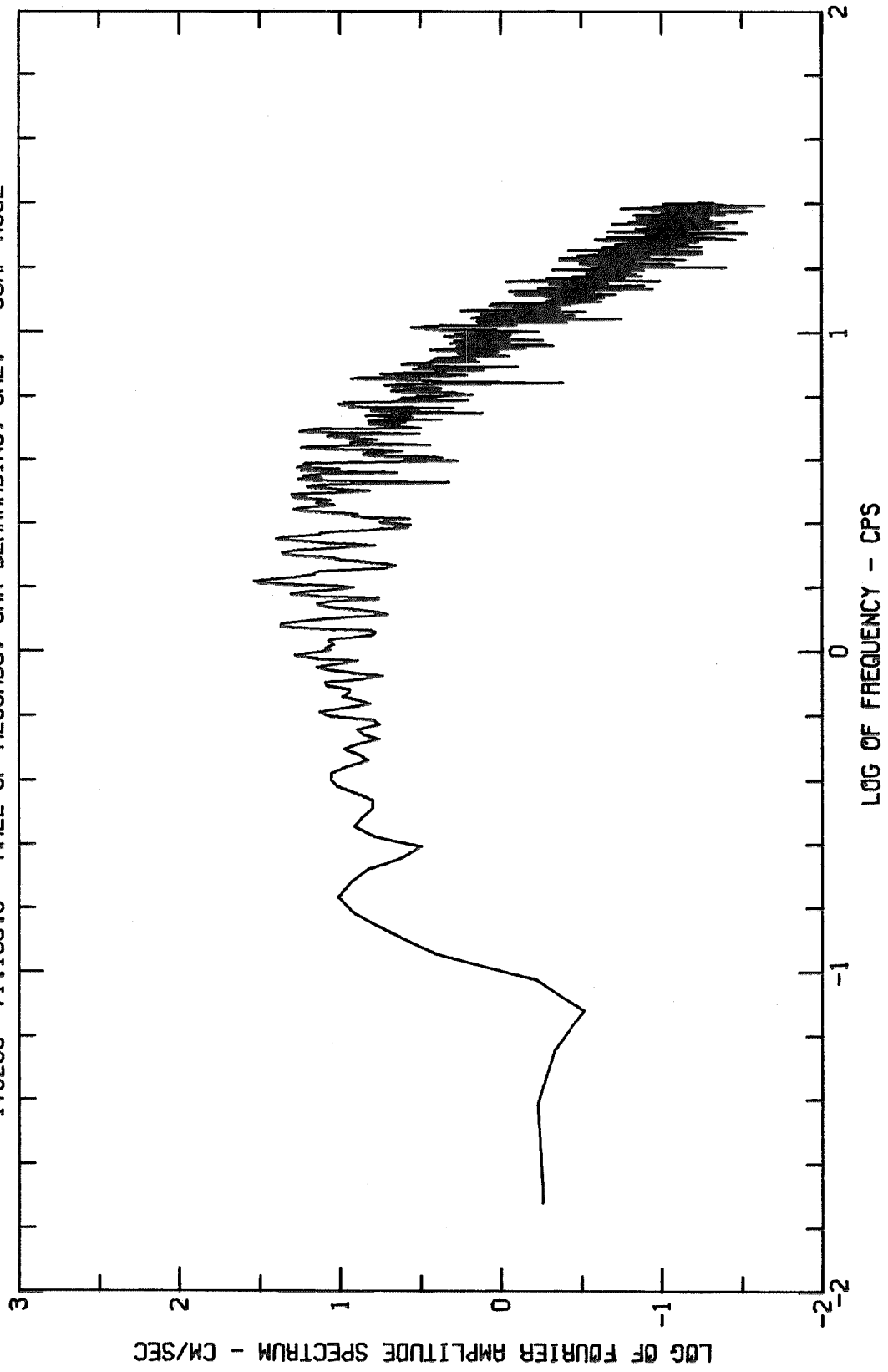
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1V0205 71.154.0 TERMINAL ISLAND, LONG BEACH, CAL. COMP UP



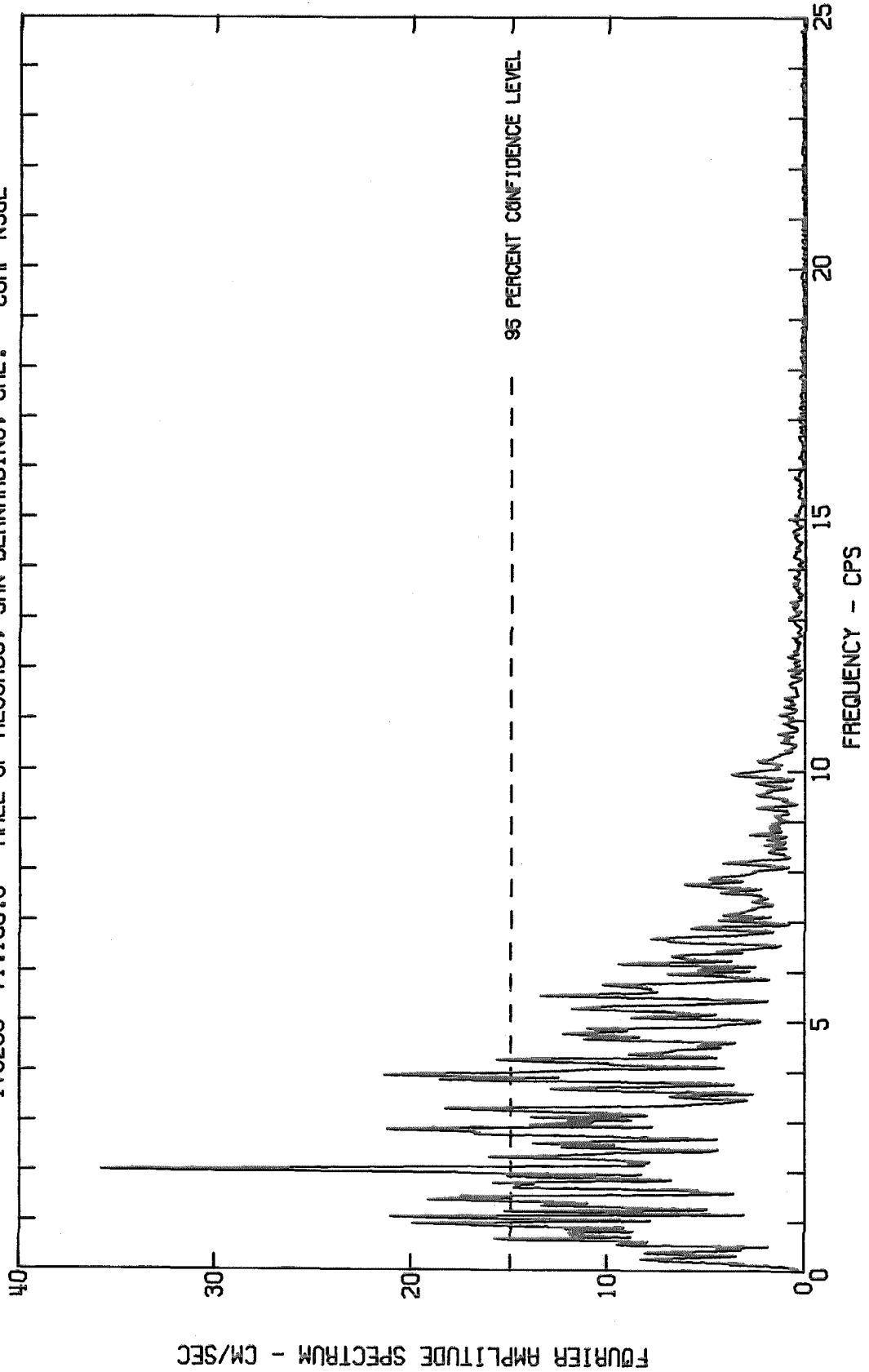
FOURIER AMPLITUDE SPECTRUM OF ACCELERATION
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
IV0206 71.158.0 HALL OF RECORDS, SAN BERNARDINO, CAL. COMP NO0E



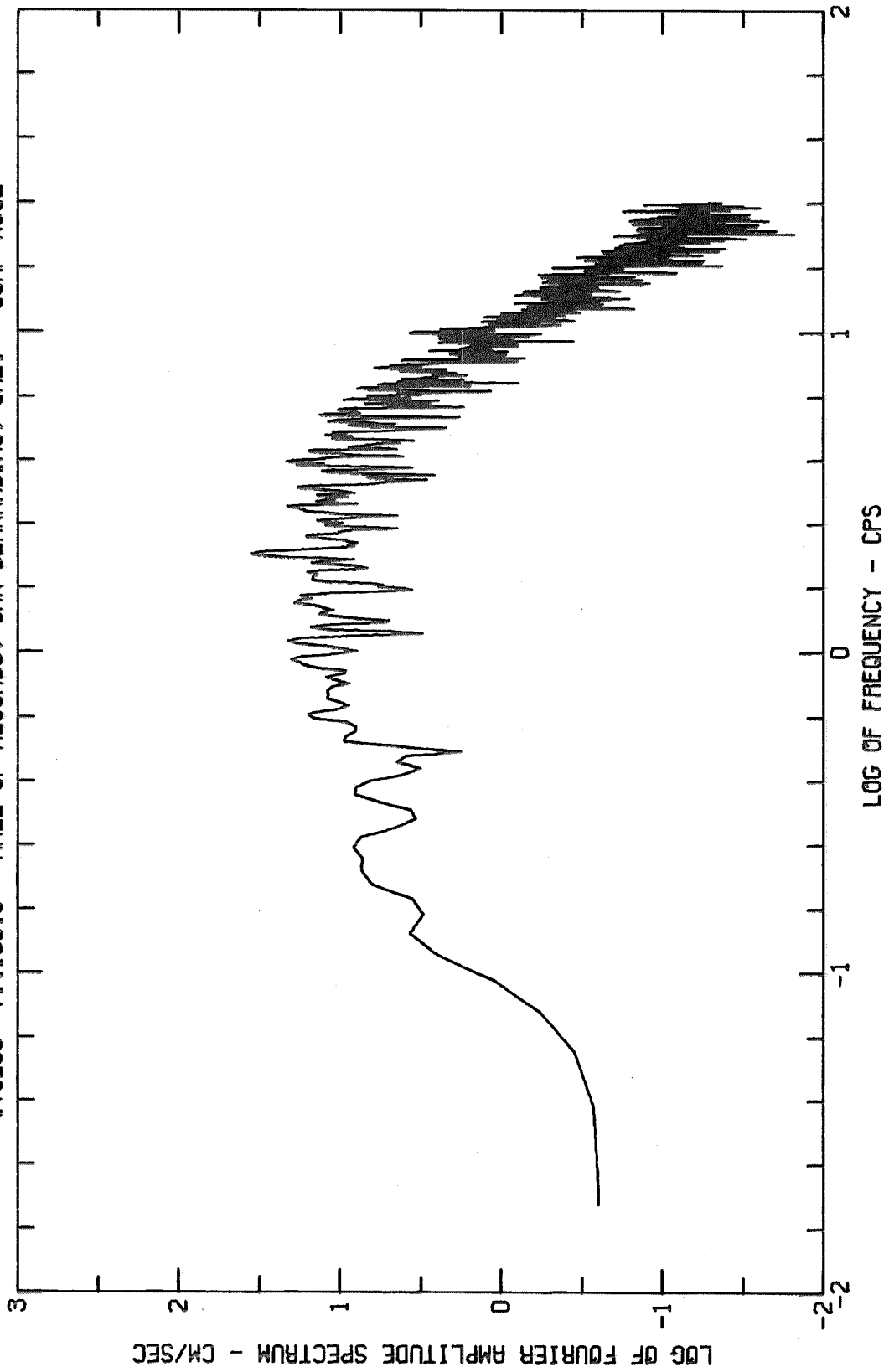
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1V0206 71.158.0 HALL OF RECORDS, SAN BERNARDINO, CAL. COMP NOOE



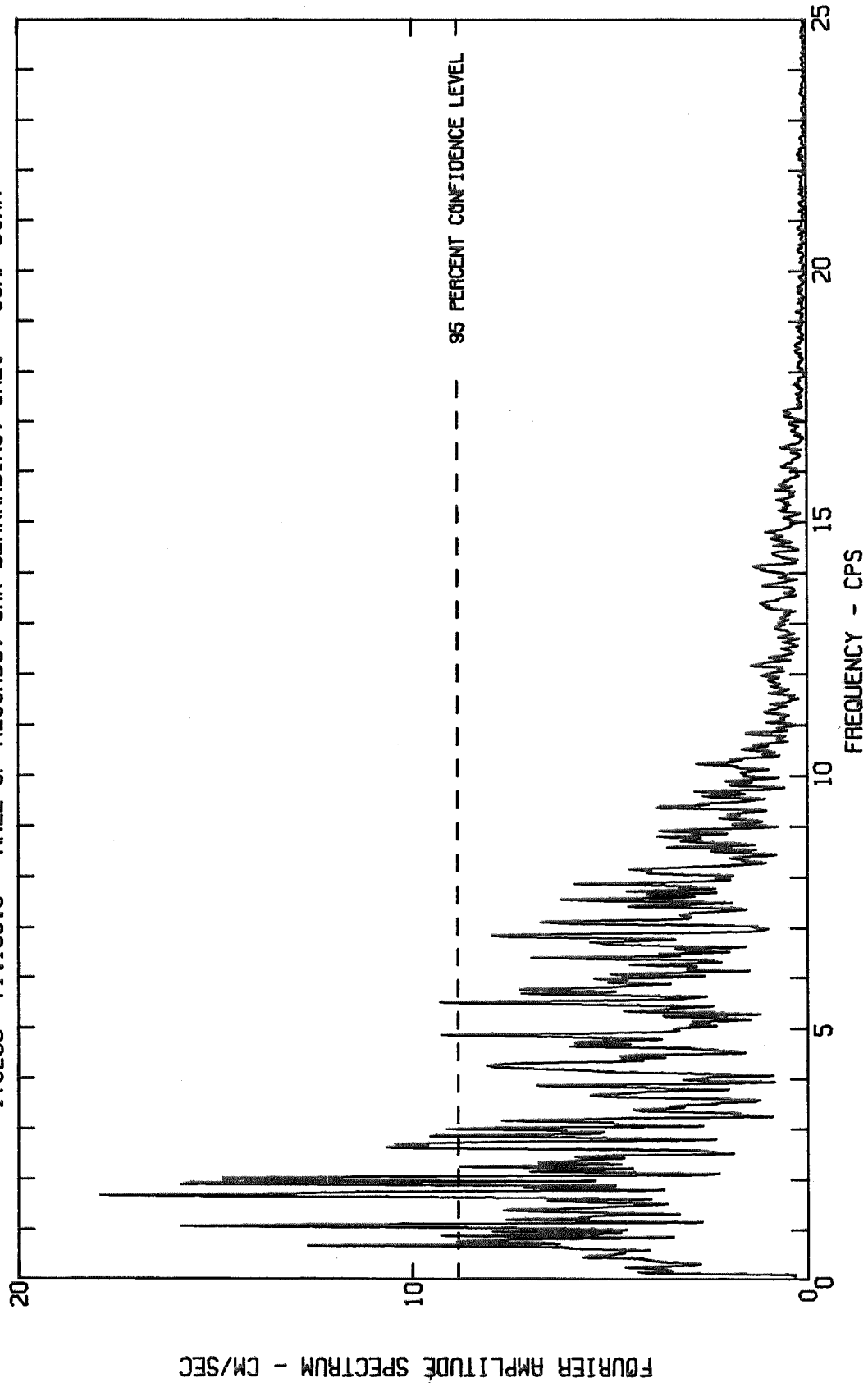
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IV0206 71.158.0 HALL OF RECORDS, SAN BERNARDINO, CAL. COMP N90E



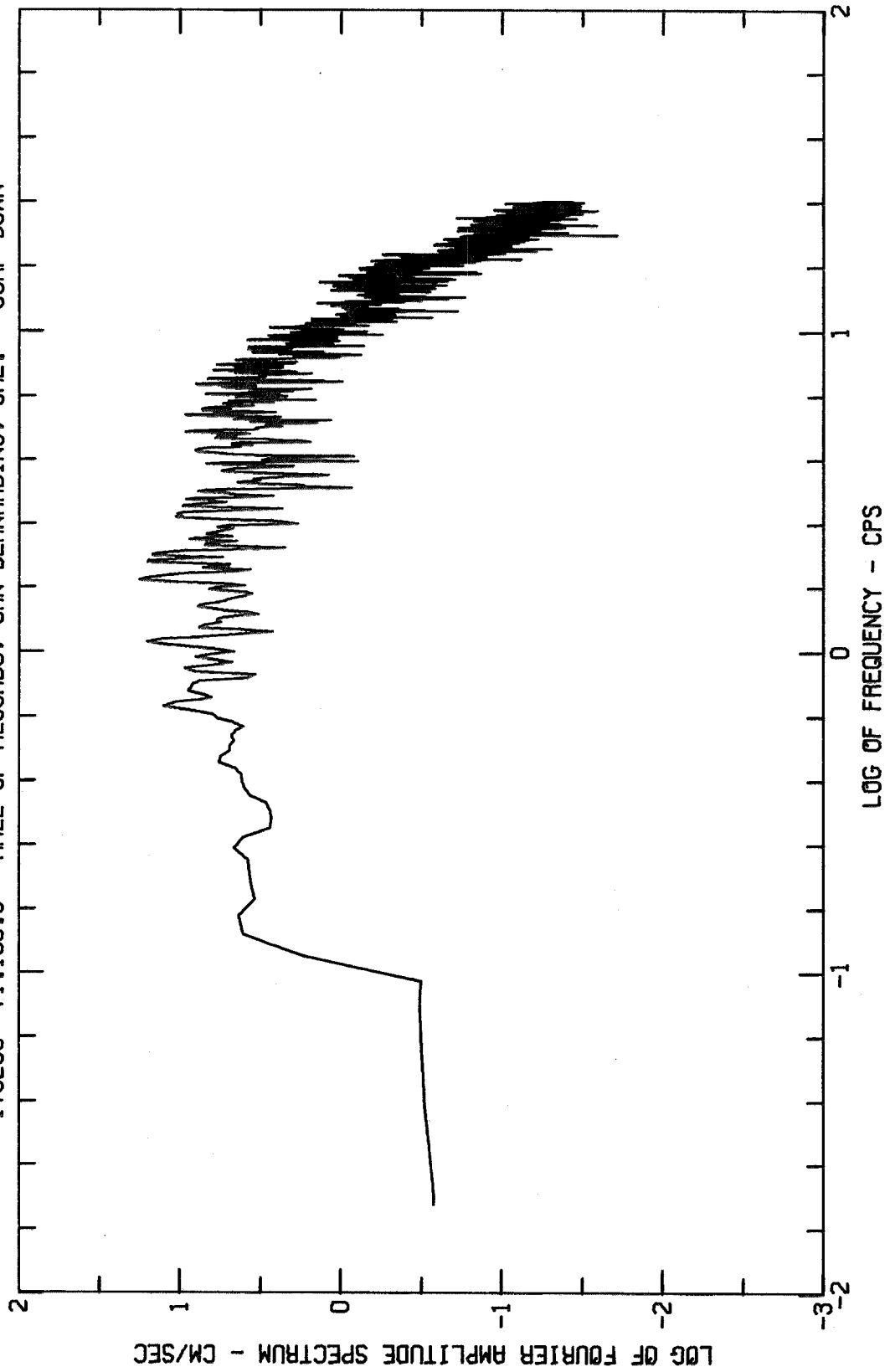
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IV0206 71.158.0 HALL OF RECORDS, SAN BERNARDINO, CAL. COMP N90E



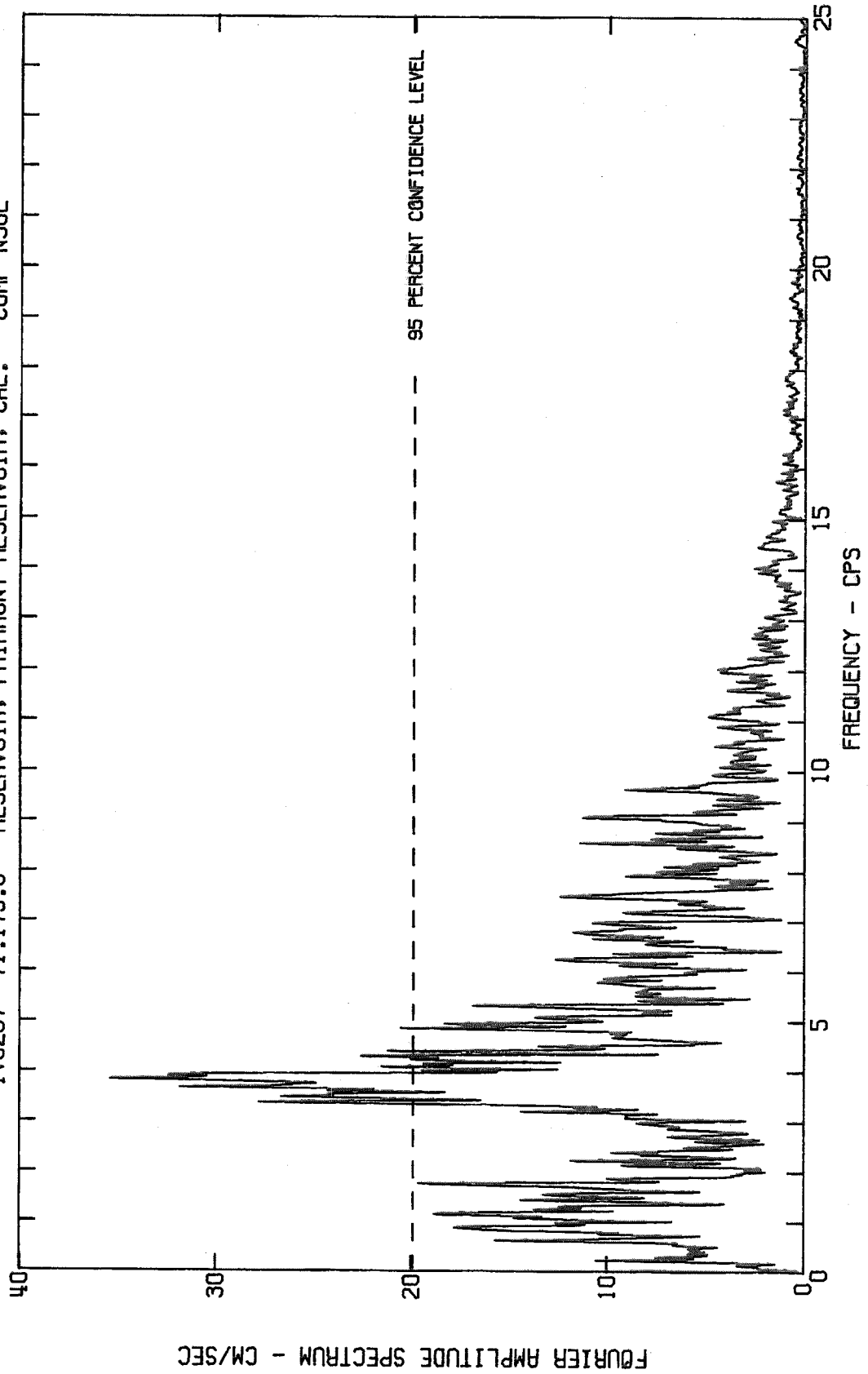
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IV0206 71.158.0 HALL OF RECORDS, SAN BERNARDINO, CAL. COMP DOWN



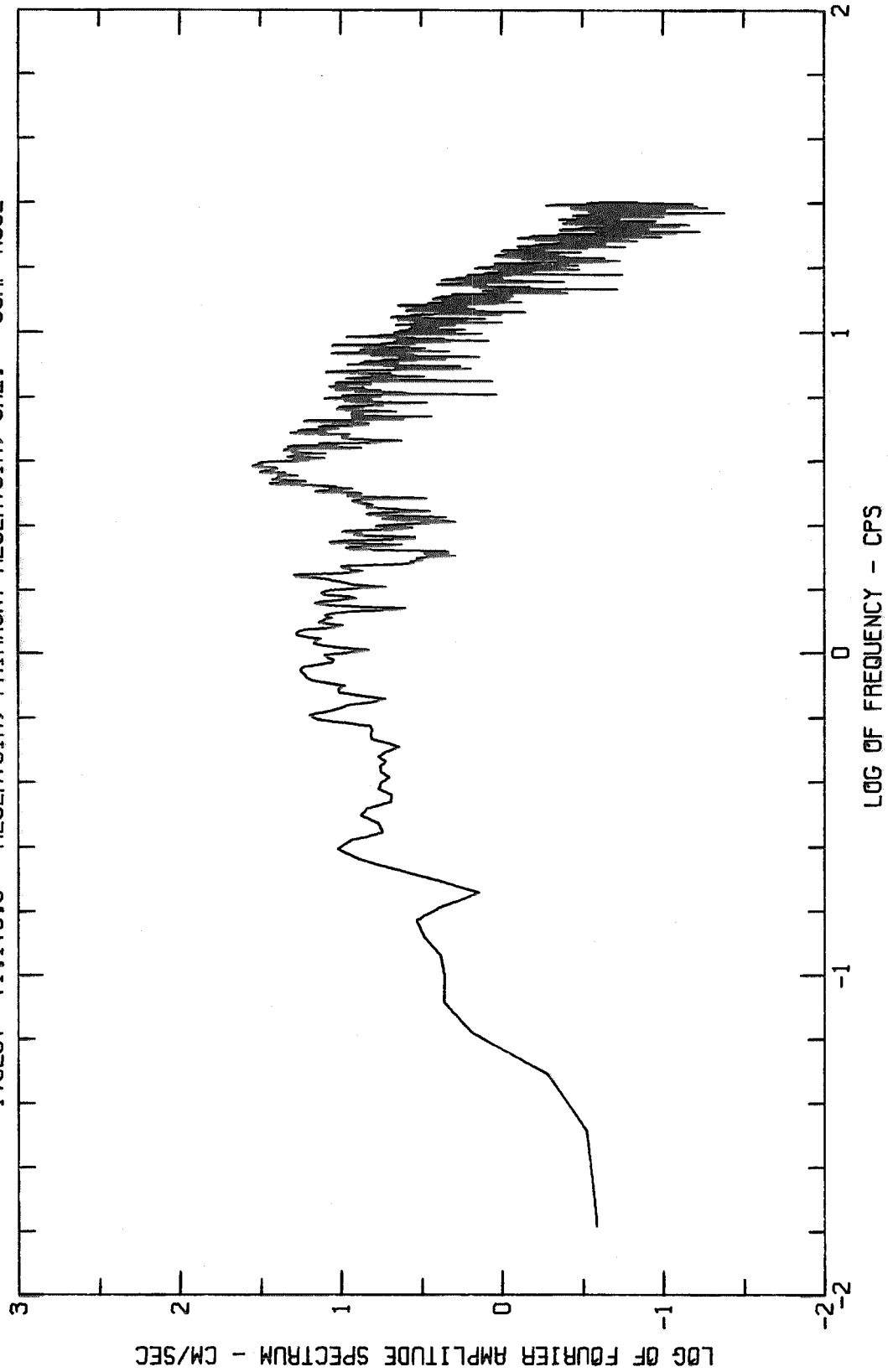
FOURIER AMPLITUDE SPECTRUM OF ACCELERATION
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
1V0206 71.158.0 HALL OF RECORDS, SAN BERNARDINO, CAL. COMP DOWN



FOURIER AMPLITUDE SPECTRUM OF ACCELERATION
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
IV0207 71.175.0 RESERVOIR, FAIRMONT RESERVOIR, CAL. COMP N56E



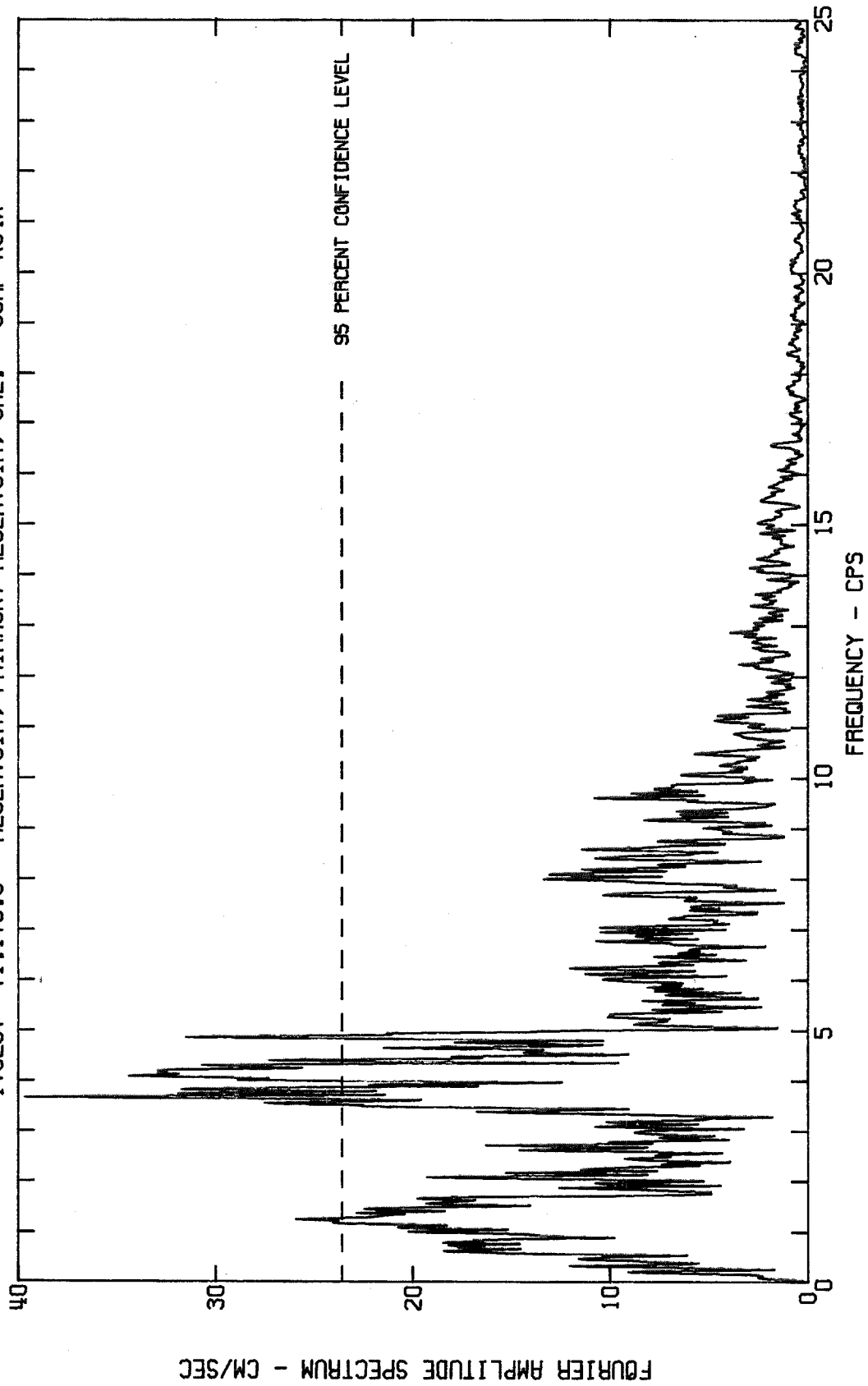
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IV0207 71.175.0 RESERVOIR, FAIRMONT RESERVOIR, CAL. COMP N56E



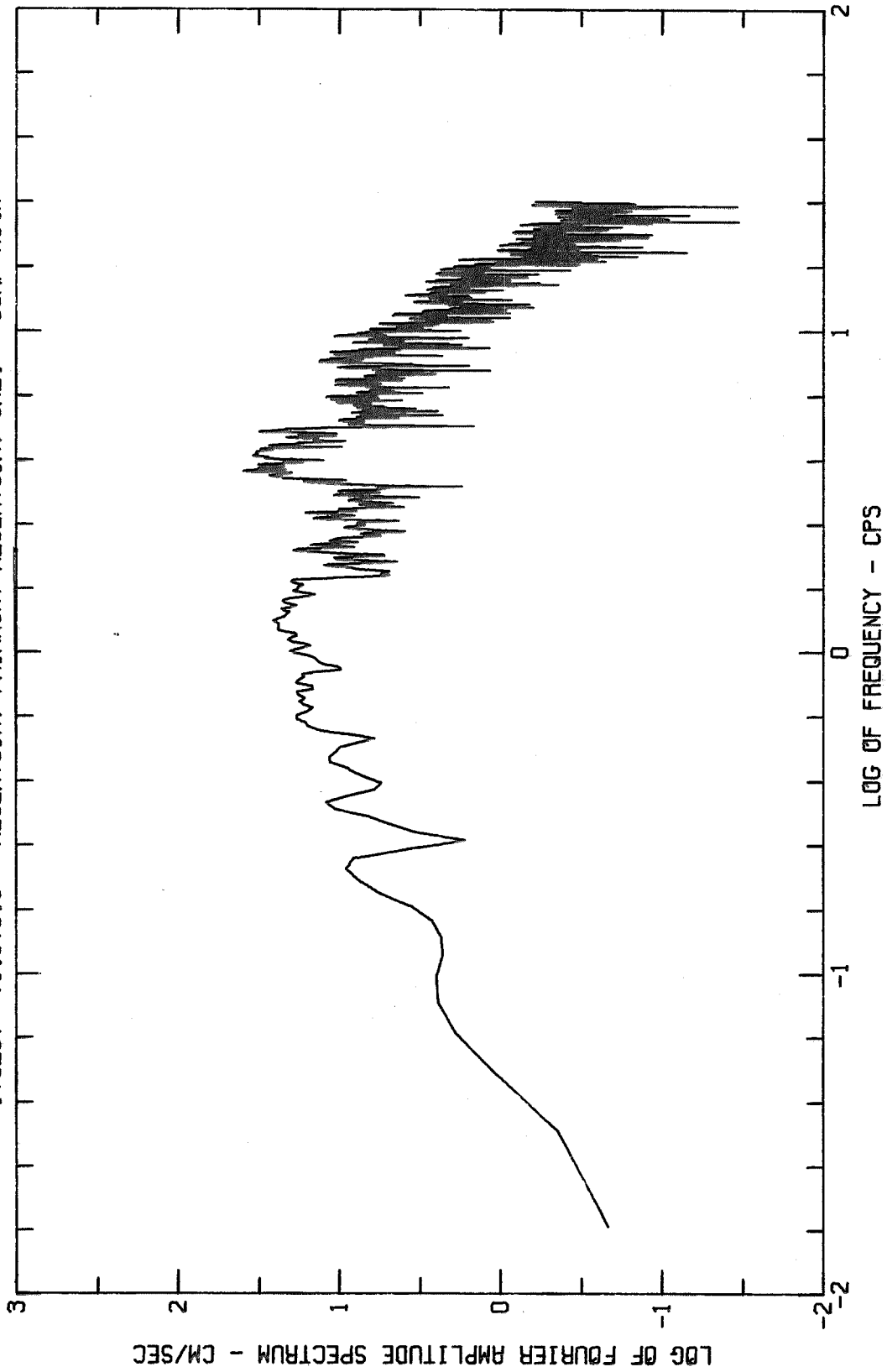
FOURIER AMPLITUDE SPECTRUM OF ACCELERATION

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

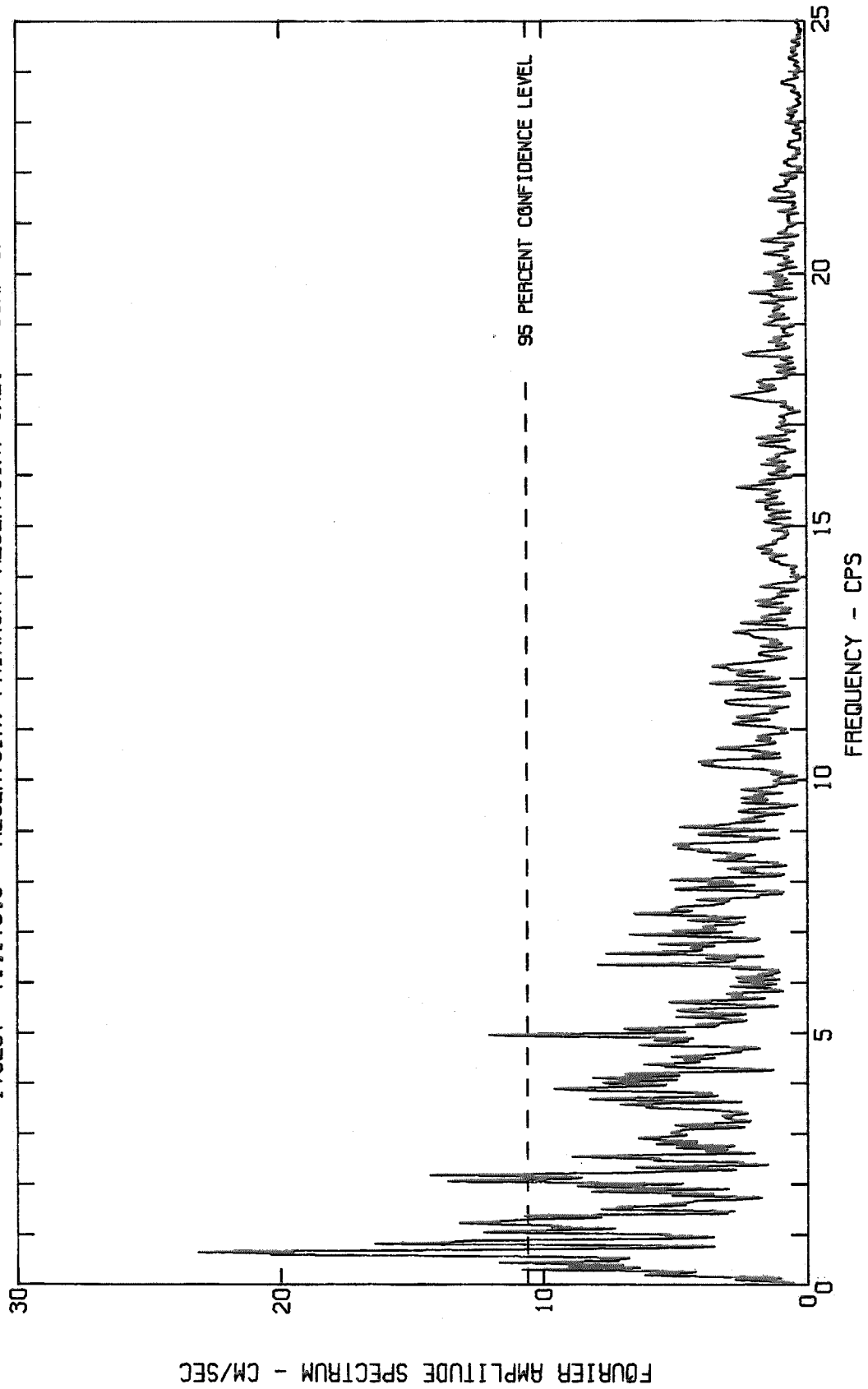
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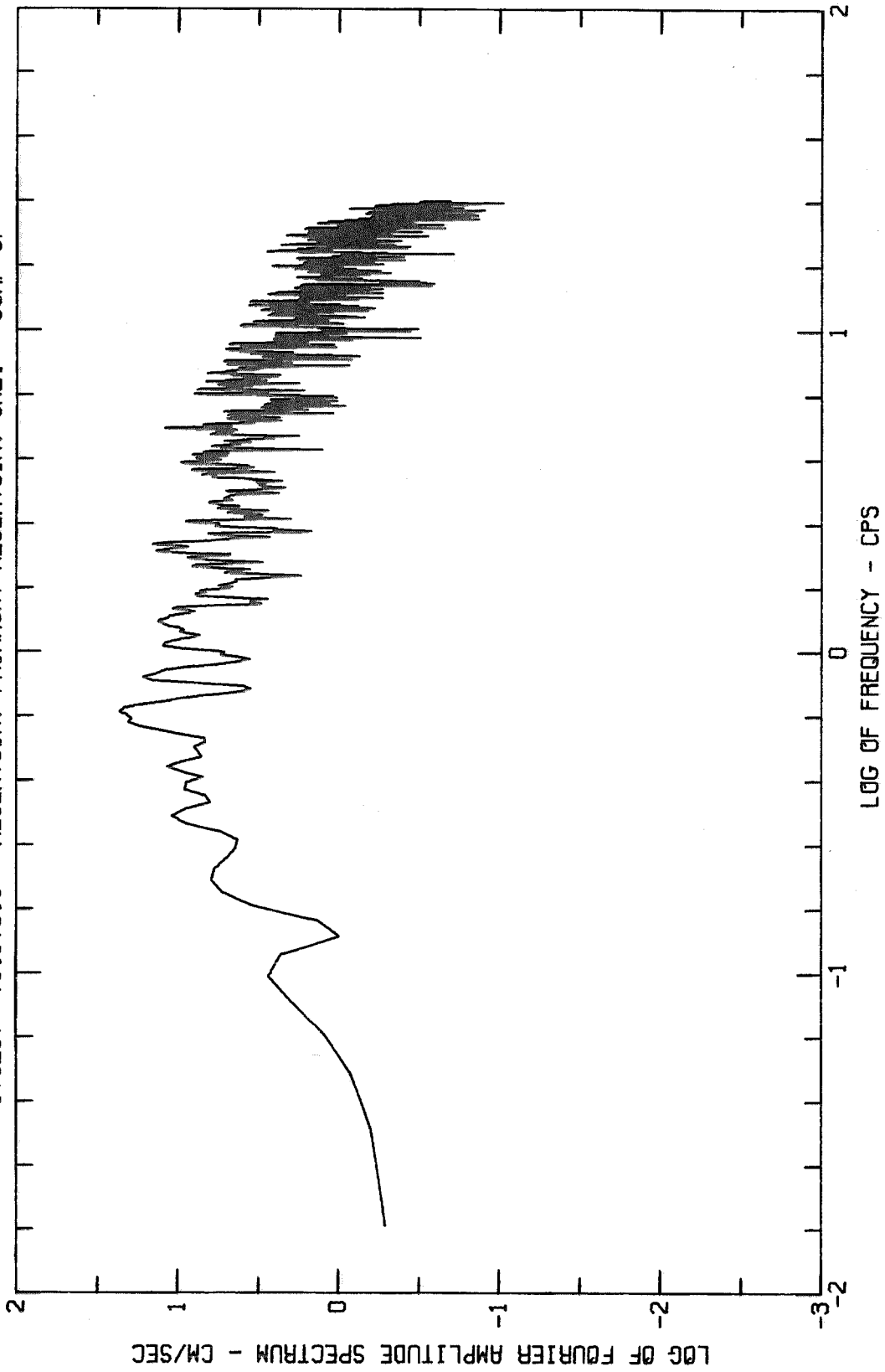
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IV0207 71.175.0 RESERVOIR, FAIRMONT RESERVOIR, CAL. COMP N34W



FOURIER AMPLITUDE SPECTRUM OF ACCELERATION
SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST
IV0207 71.175.0 RESERVOIR, FAIRMONT RESERVOIR, CAL. COMP UP



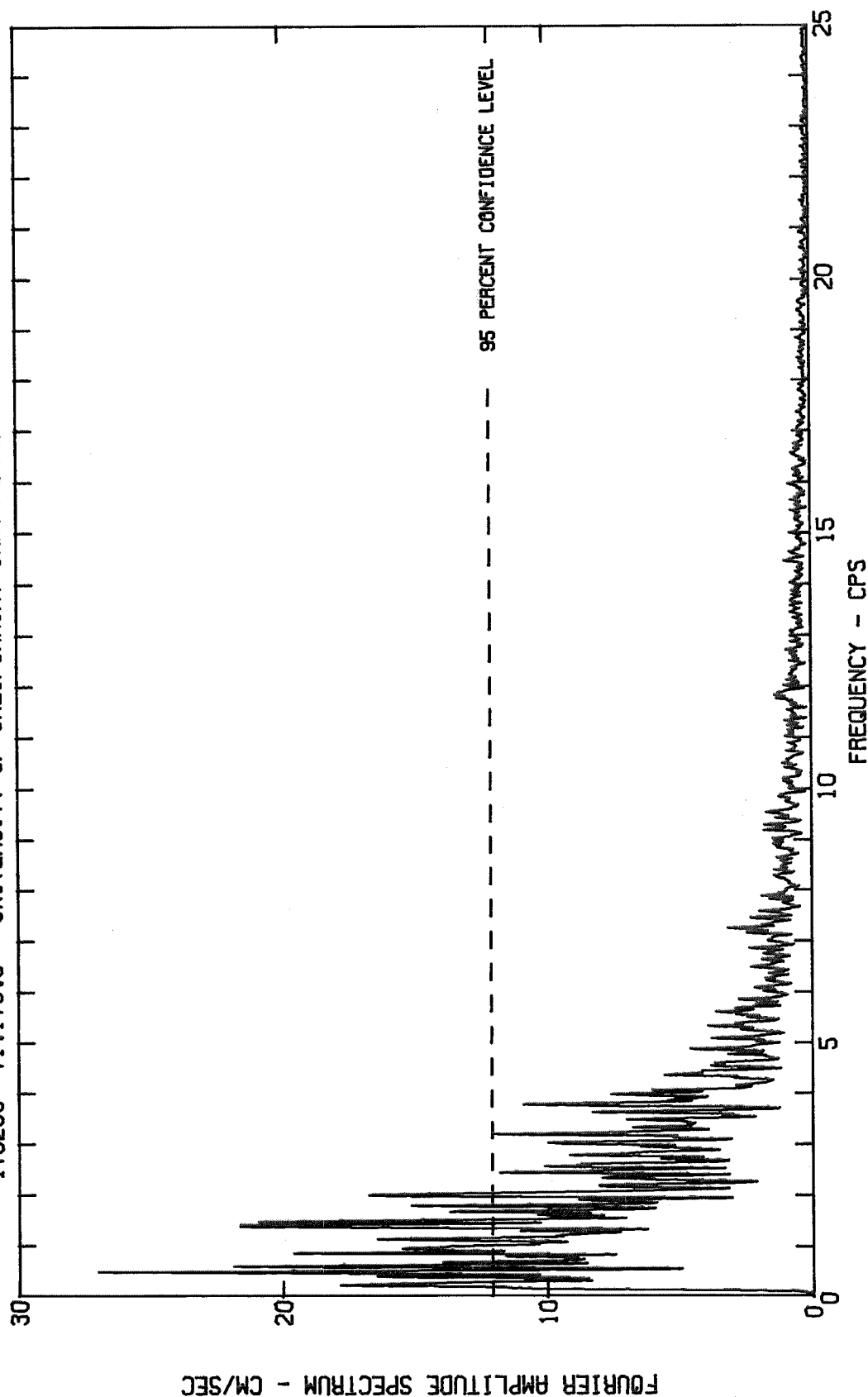
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FOURIER AMPLITUDE SPECTRUM OF ACCELERATION

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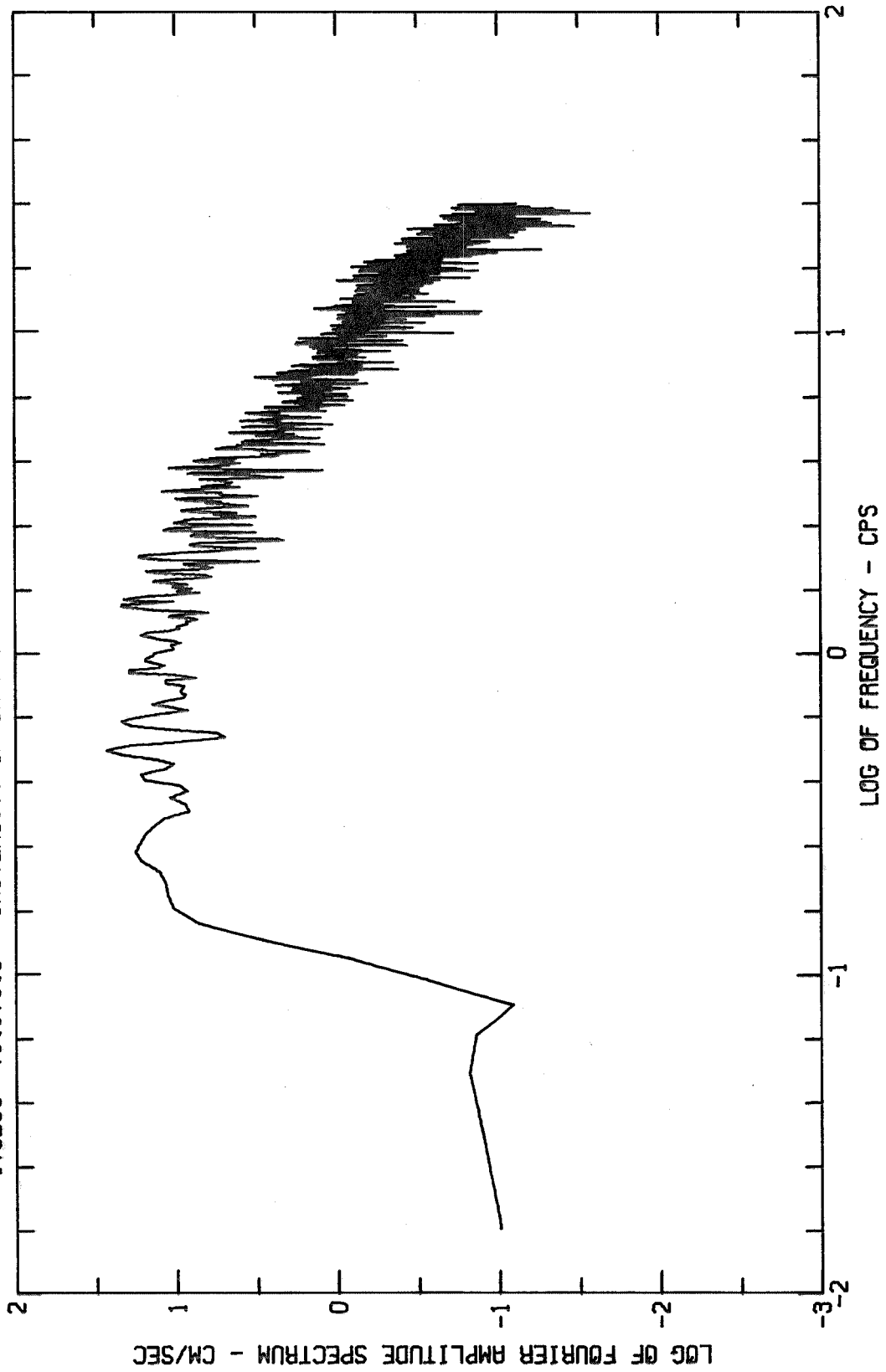
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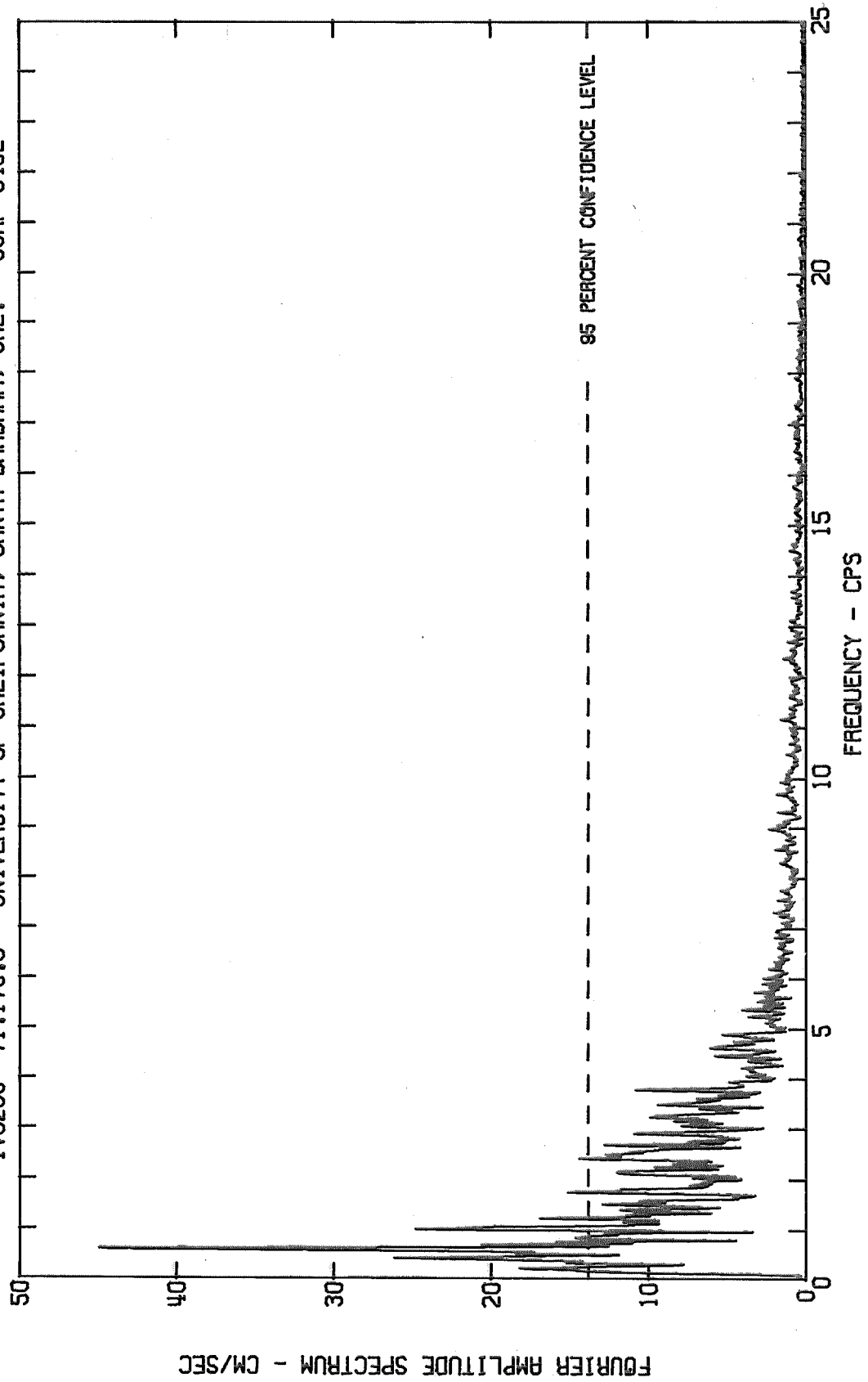
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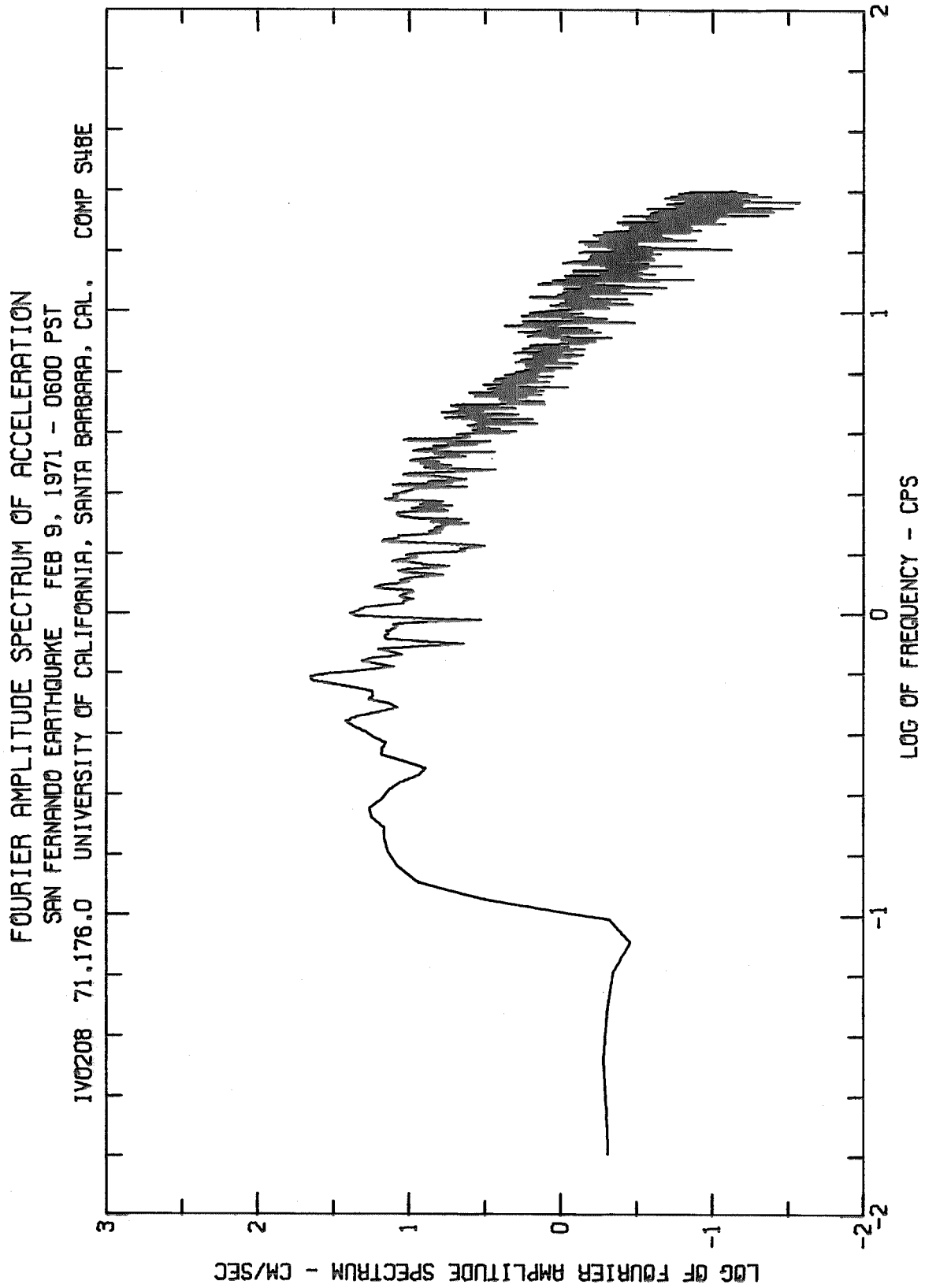
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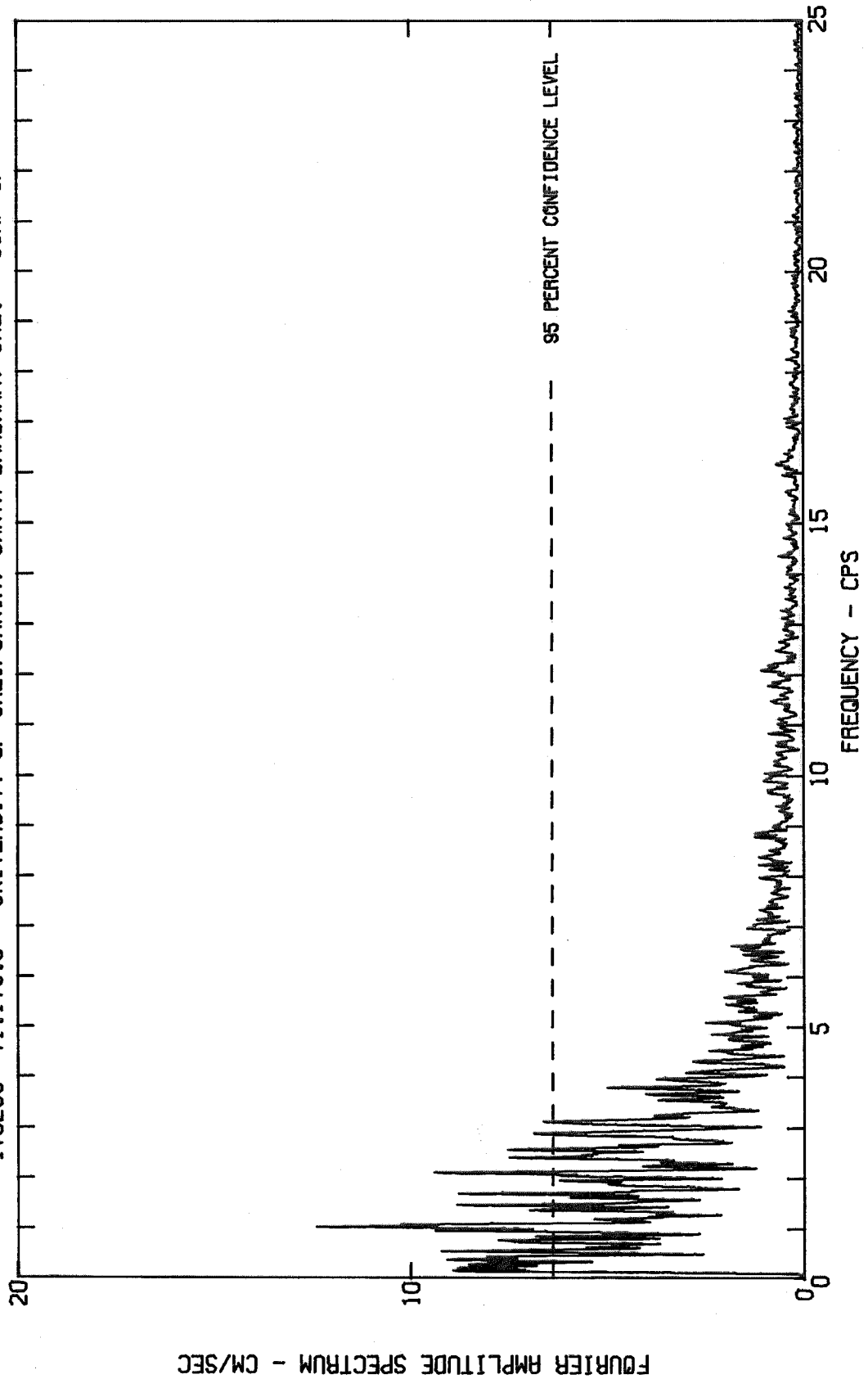


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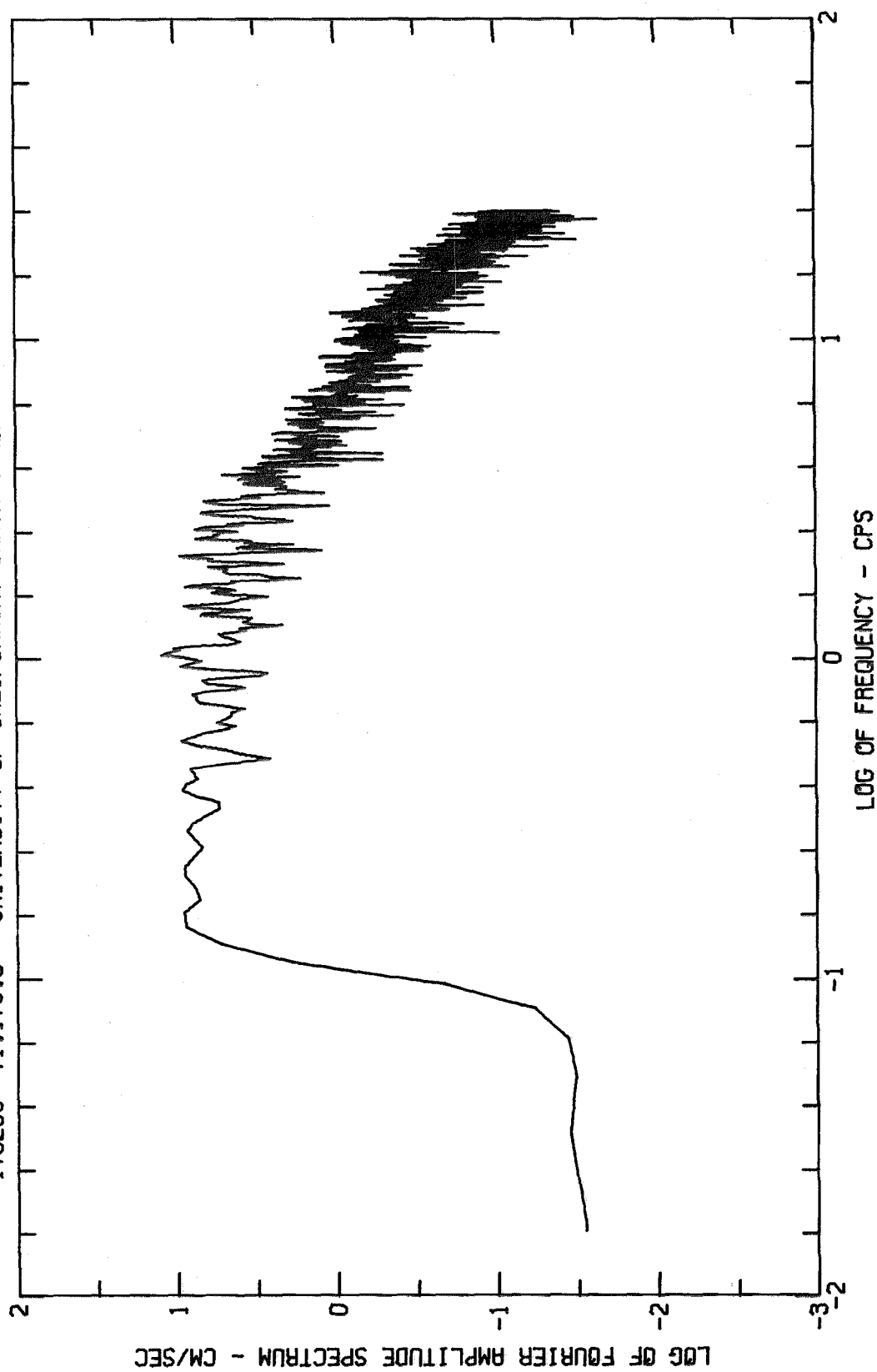




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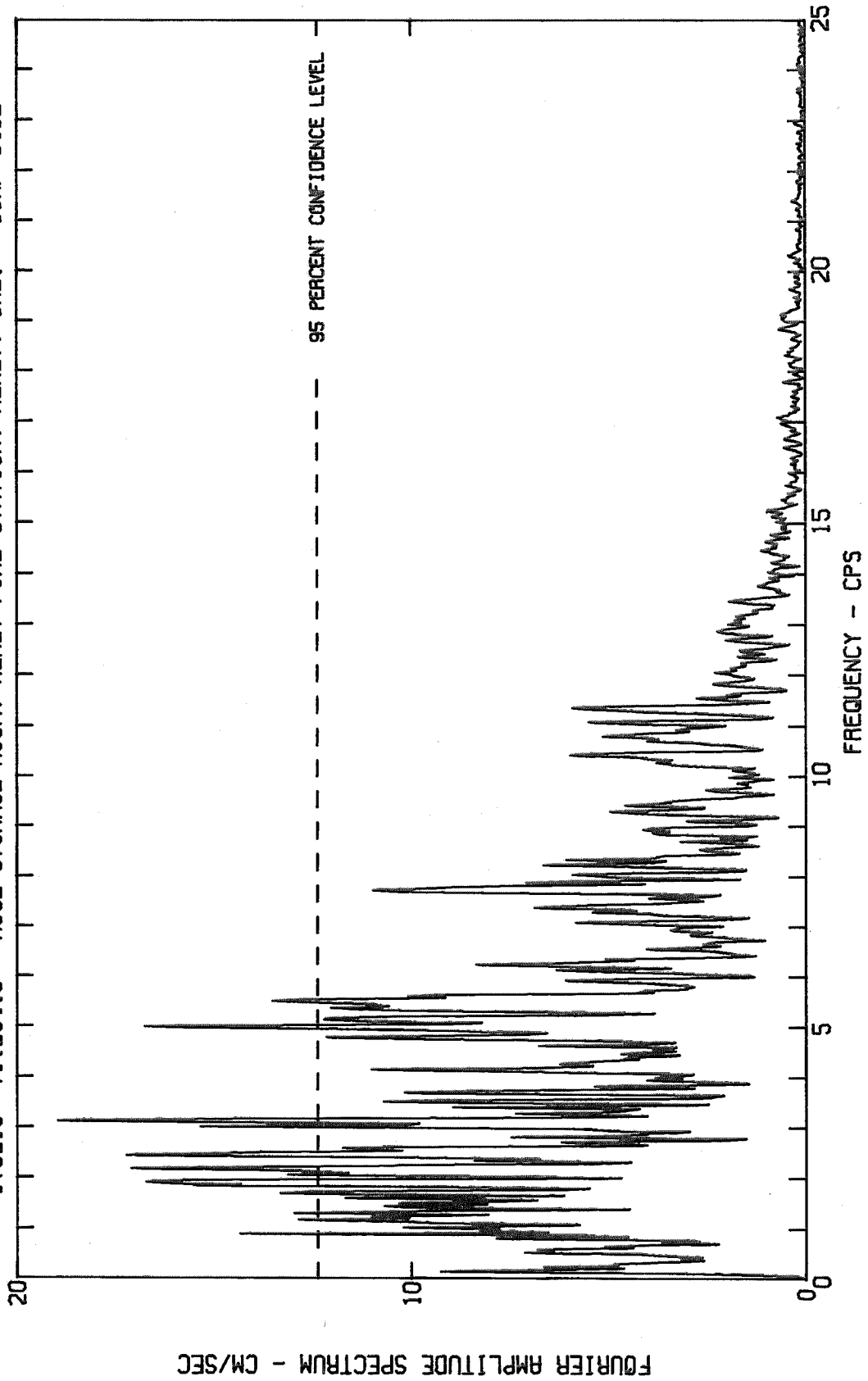
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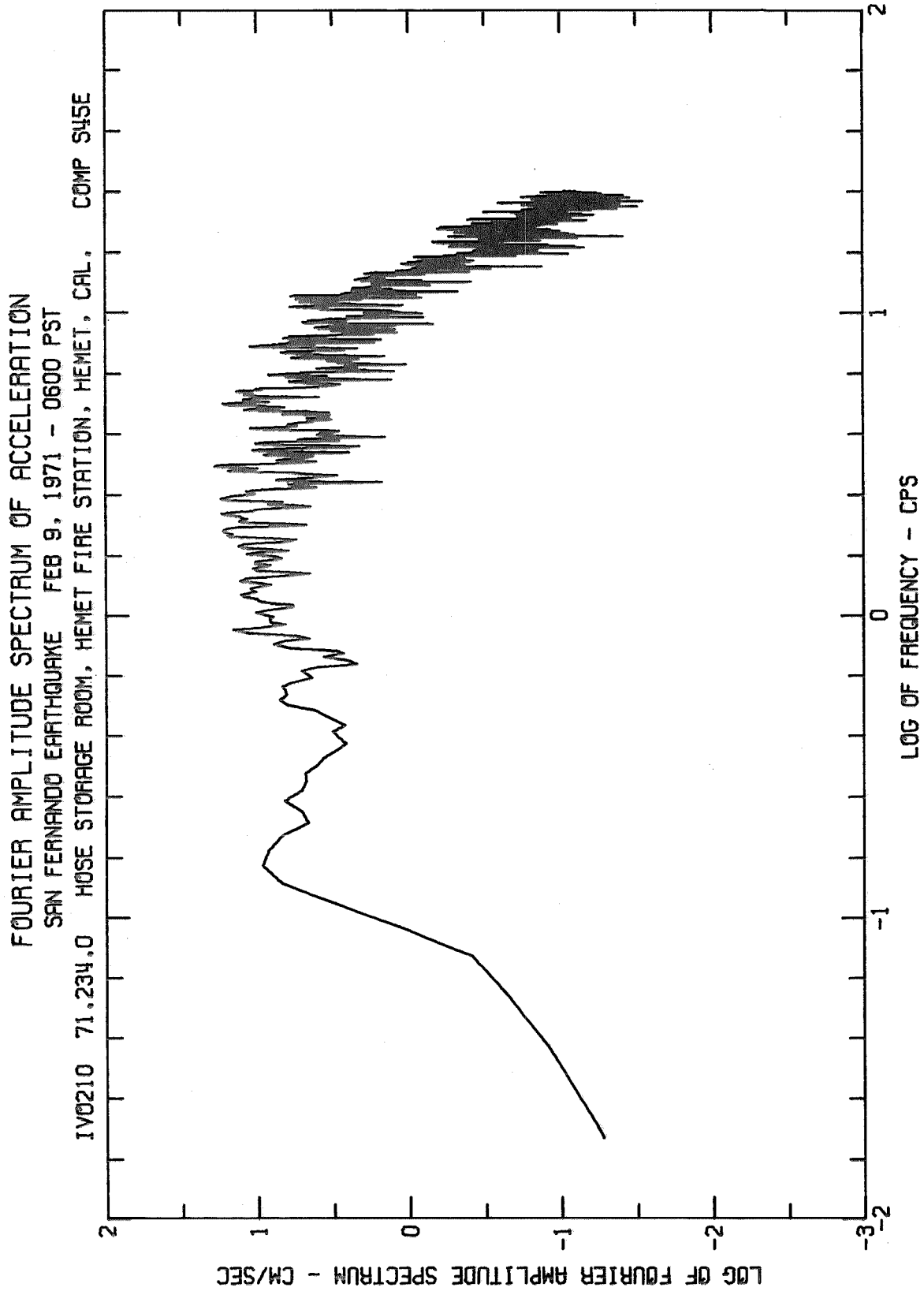


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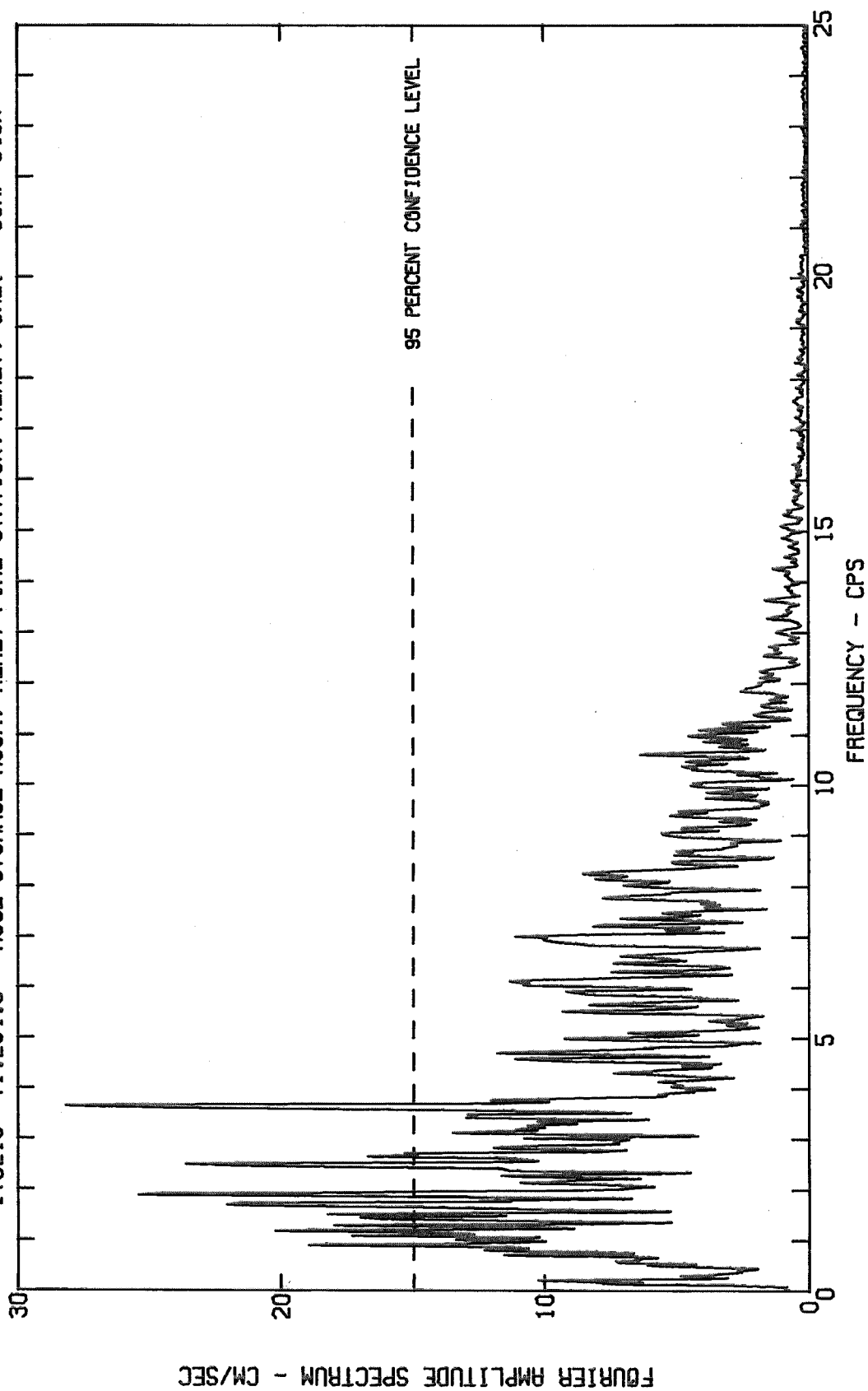




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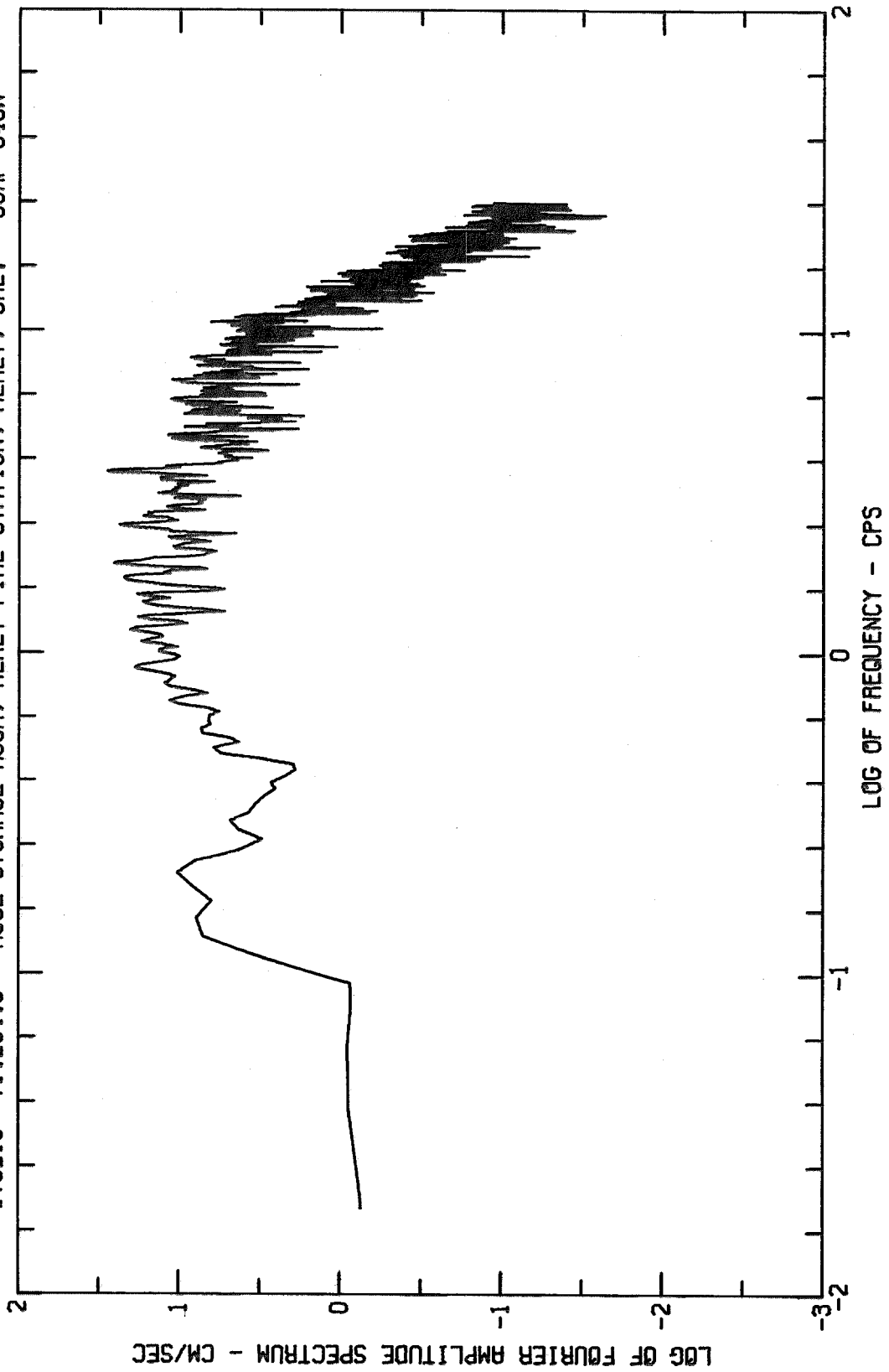
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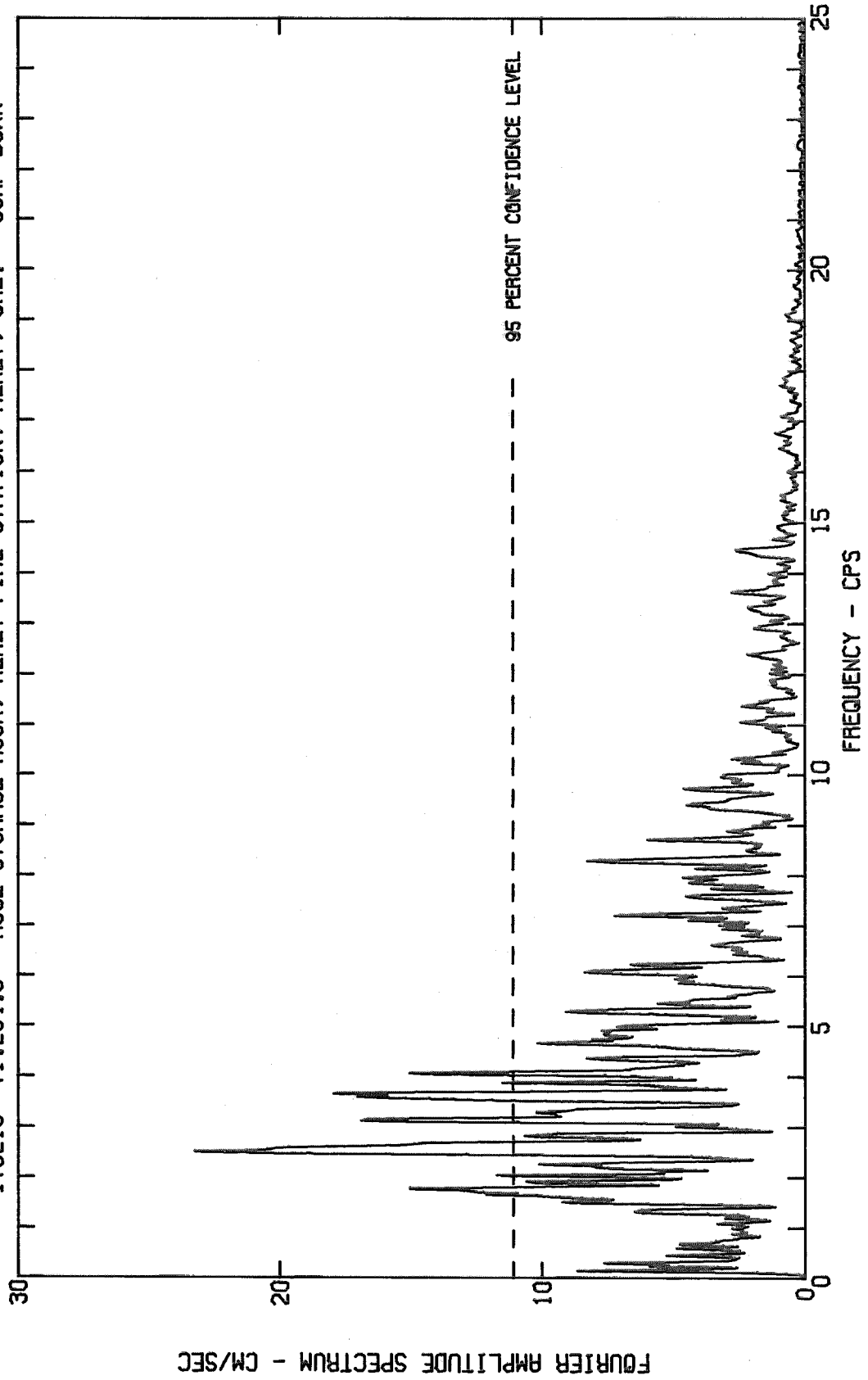
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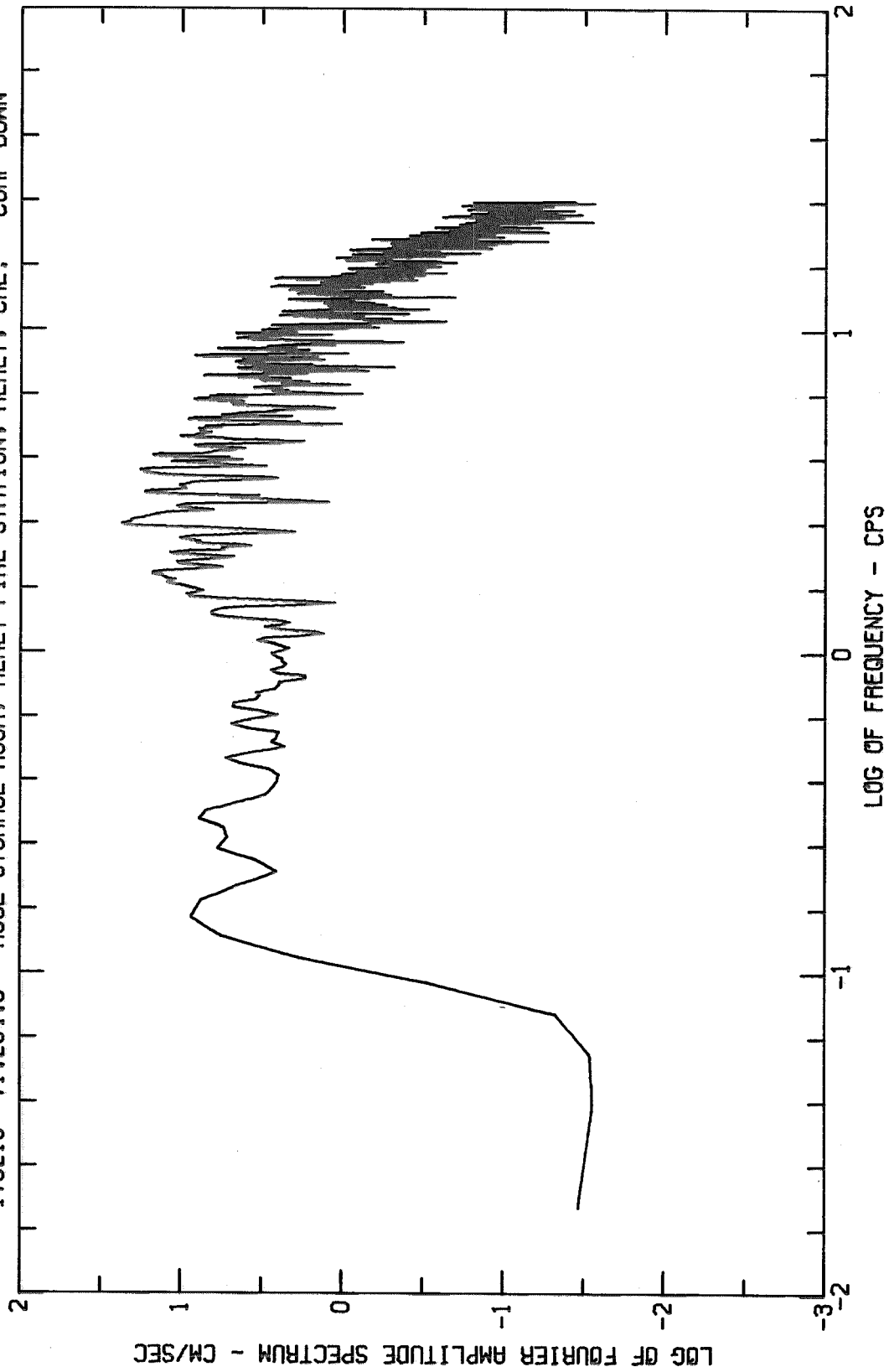
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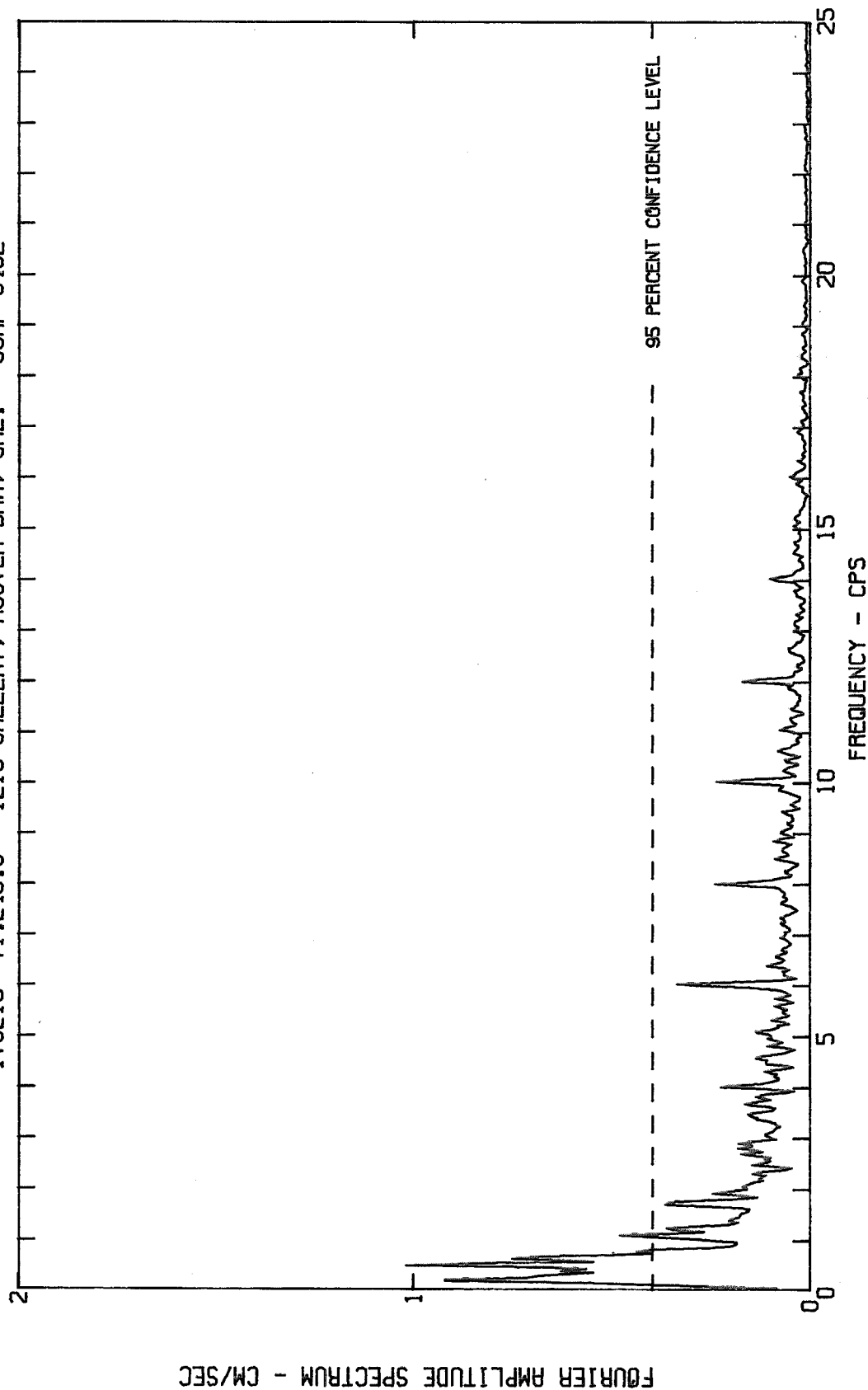
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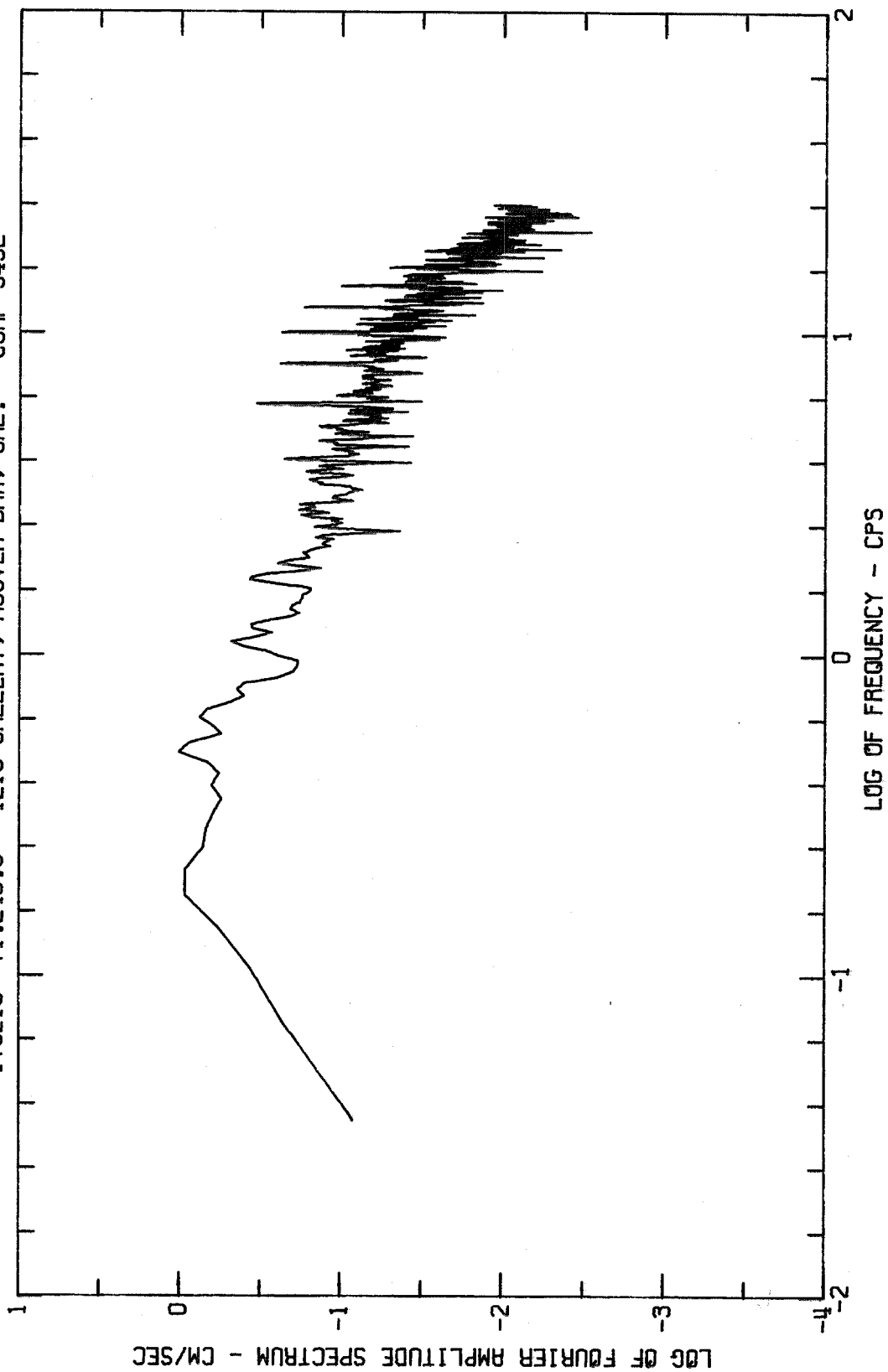


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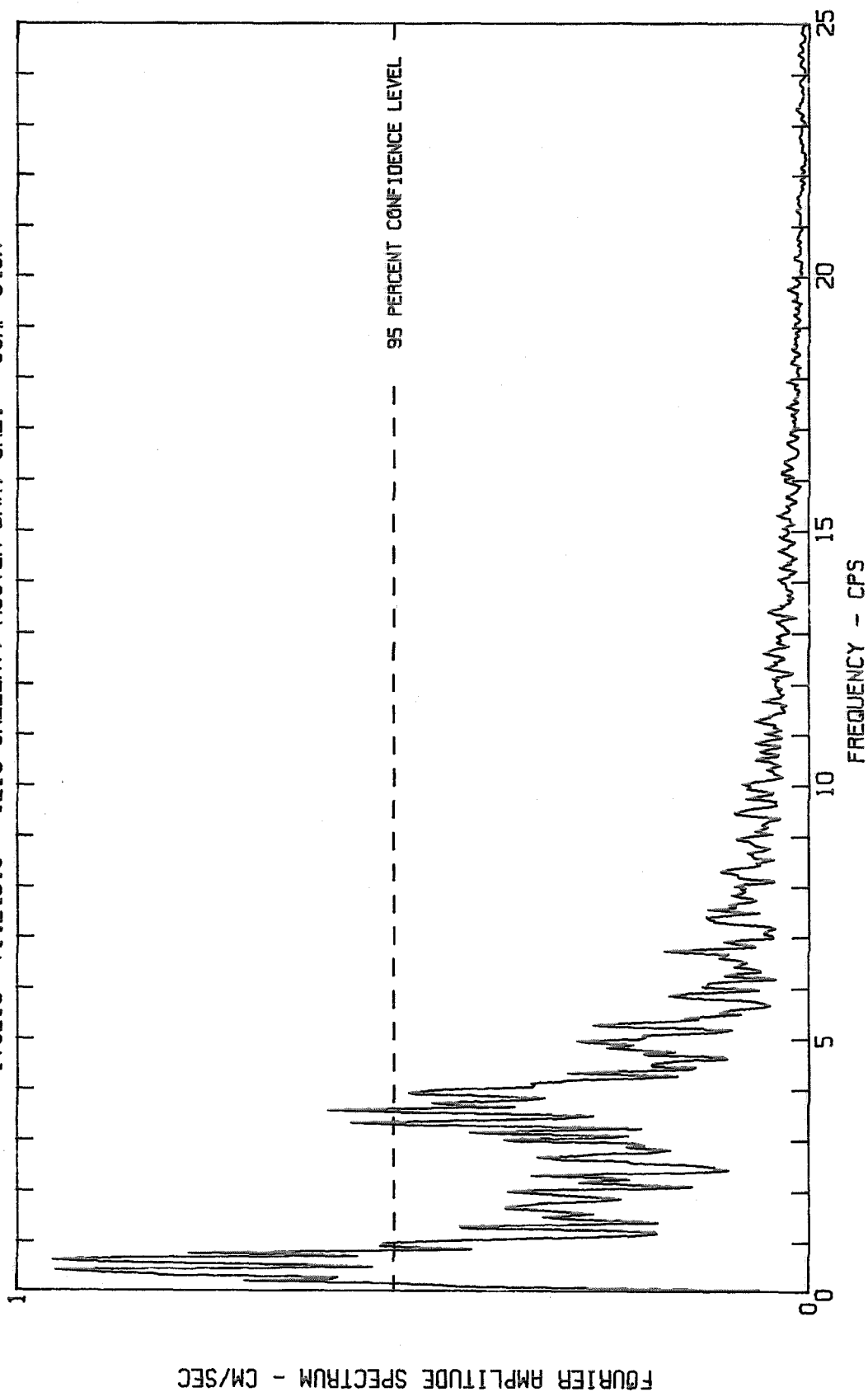


FOURIER AMPLITUDE SPECTRUM - CM/SEC

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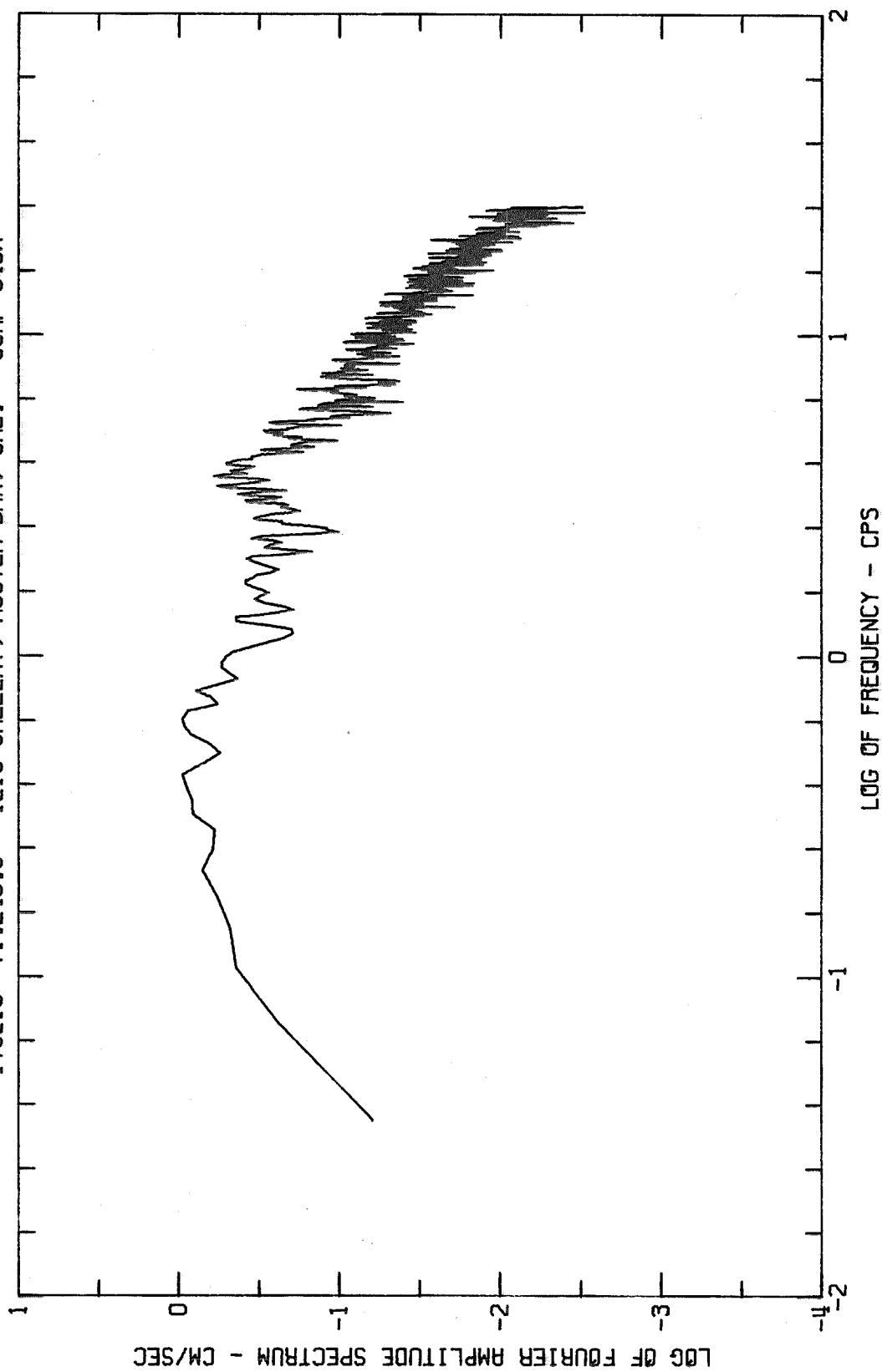
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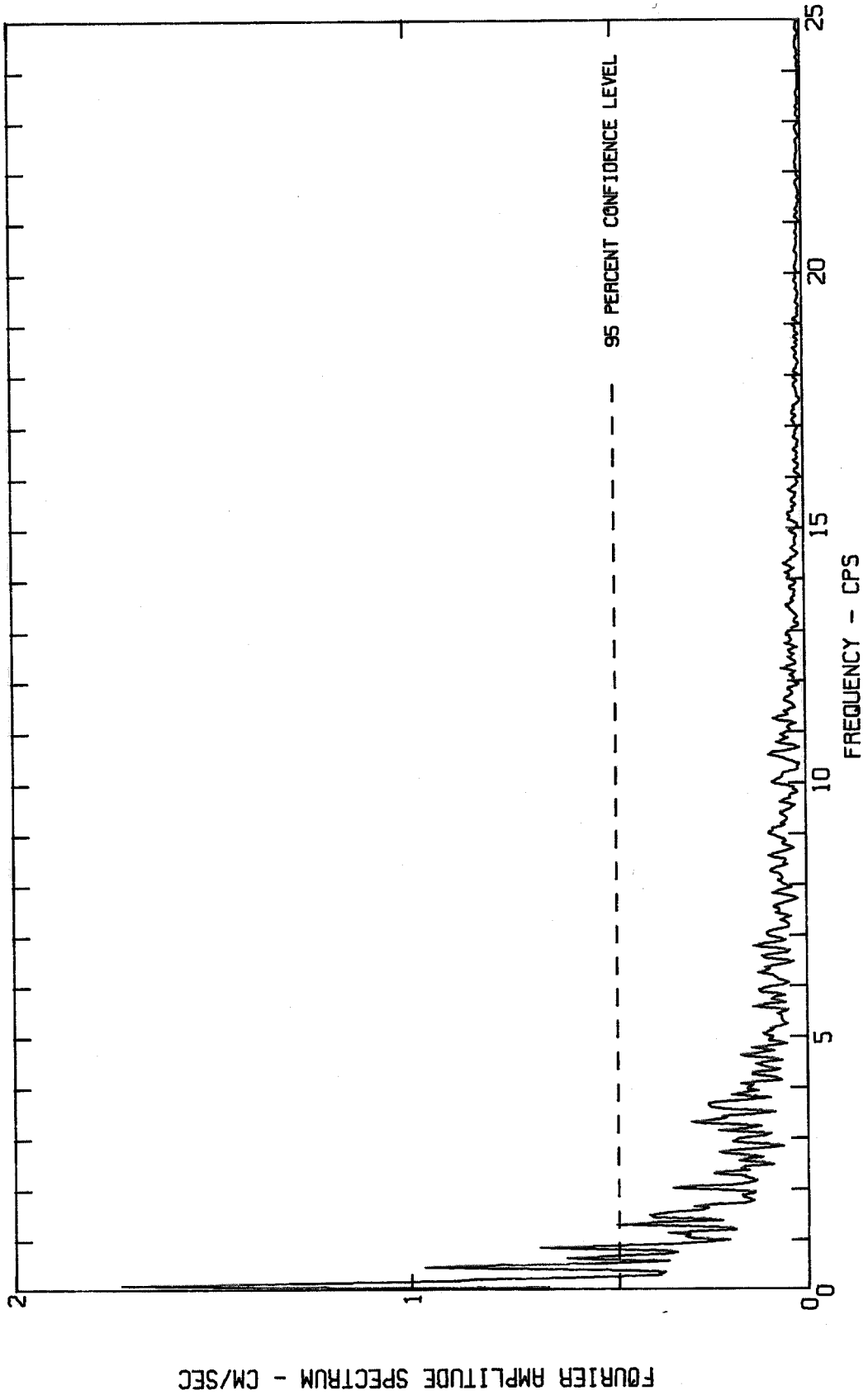
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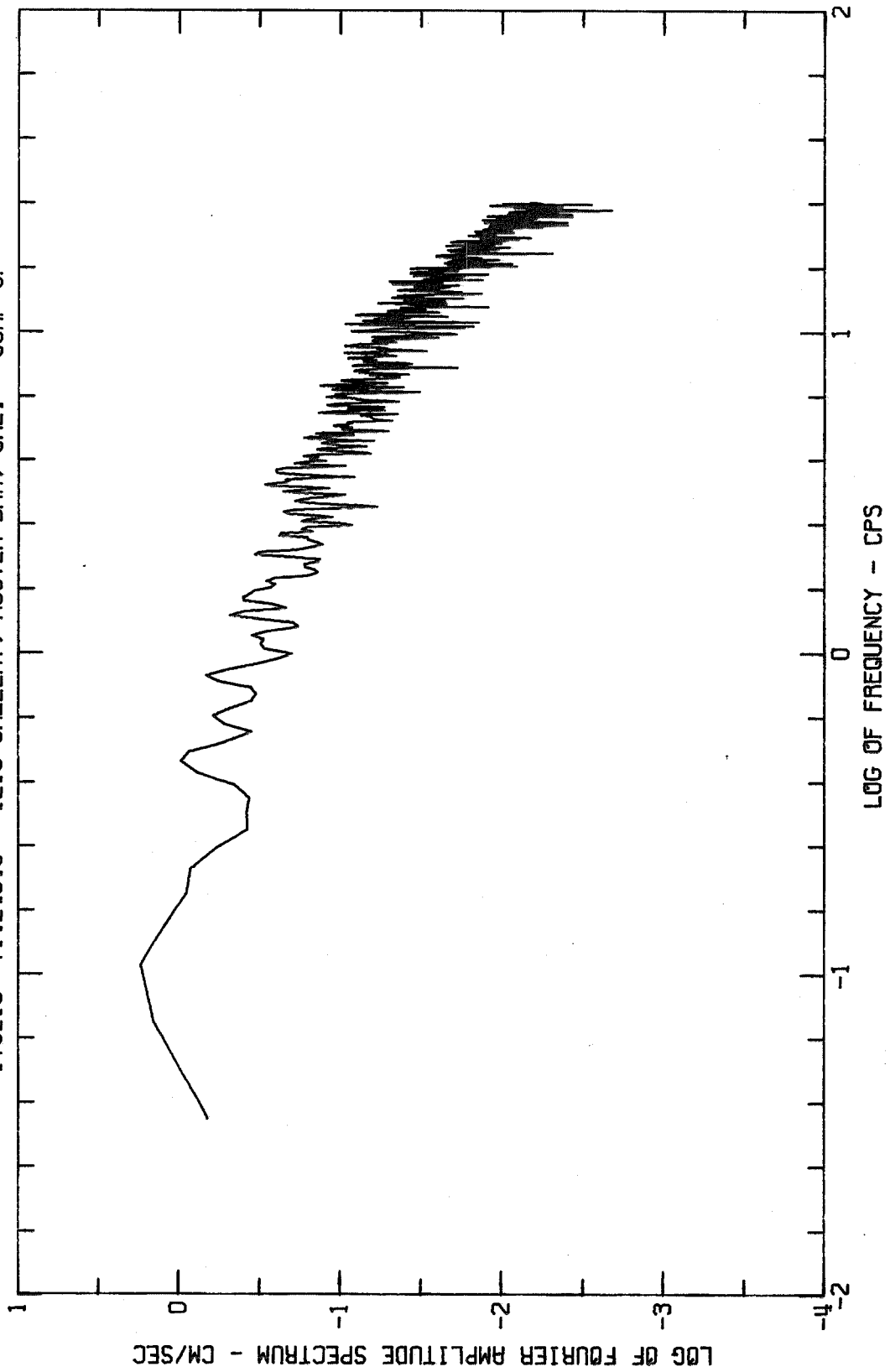
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FOURIER AMPLITUDE SPECTRUM OF ACCELERATION
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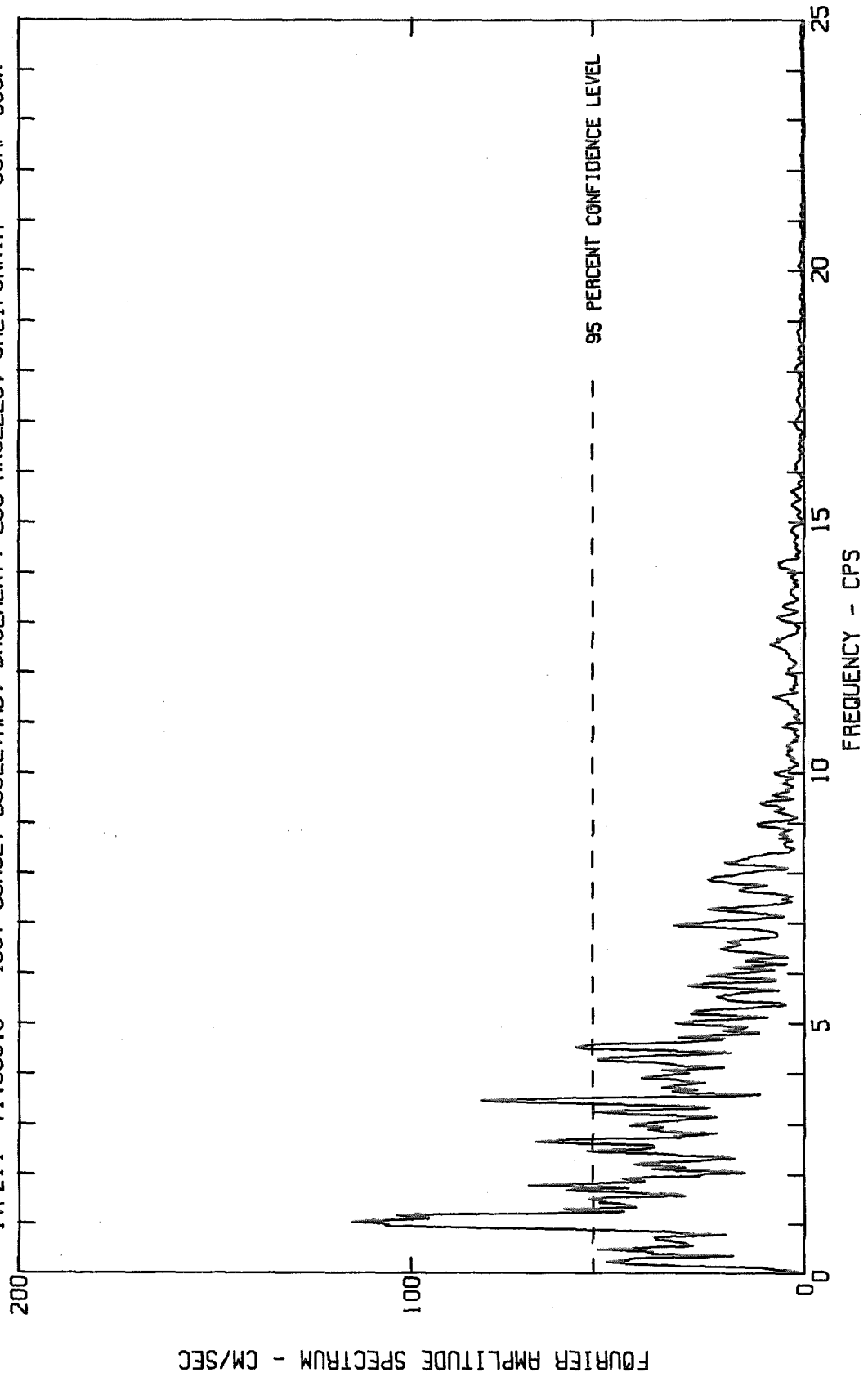


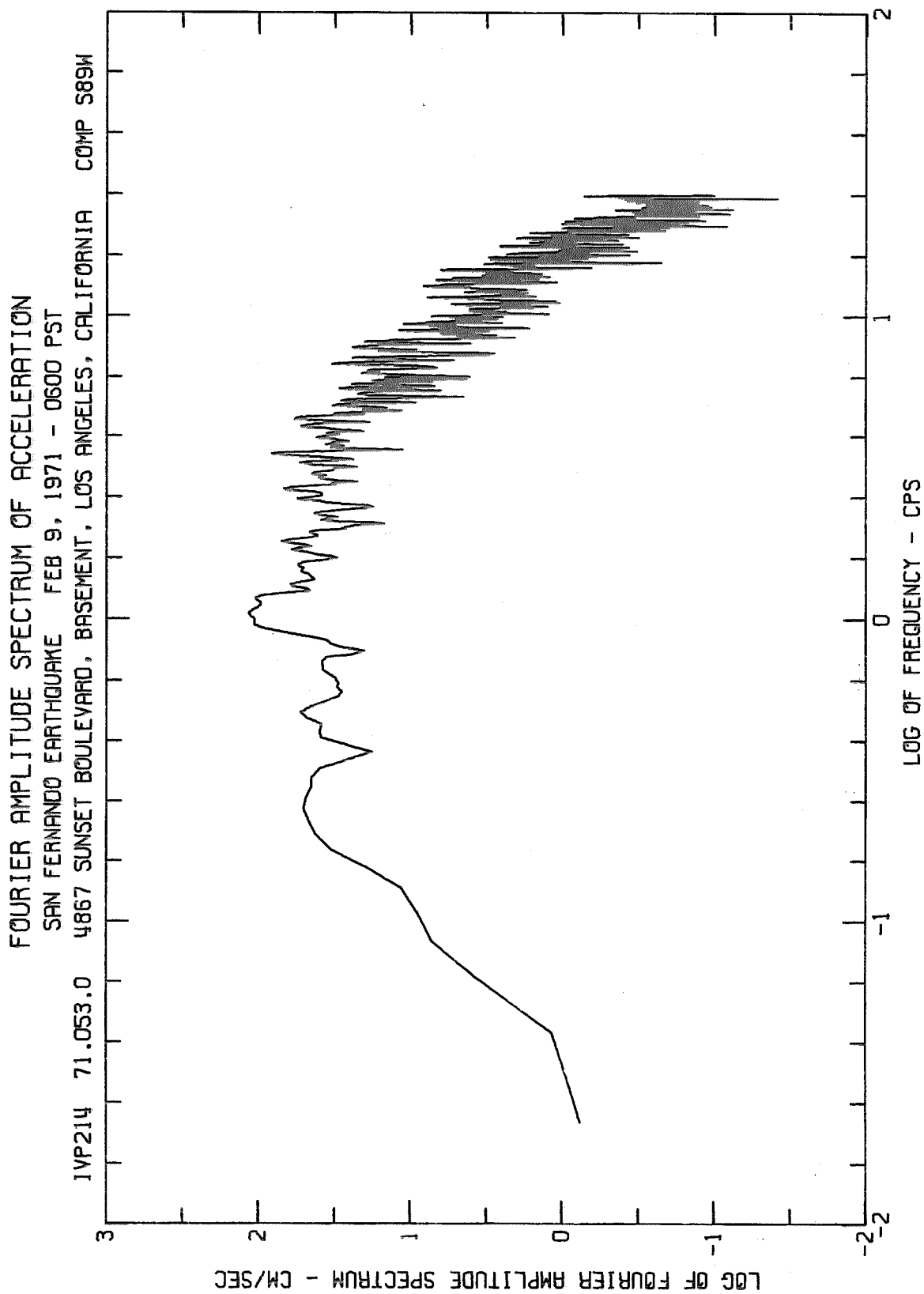
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IV0213 71.246.0 1215 GALLERY, HOOVER DAM, CAL. COMP UP



FOURIER AMPLITUDE SPECTRUM OF ACCELERATION
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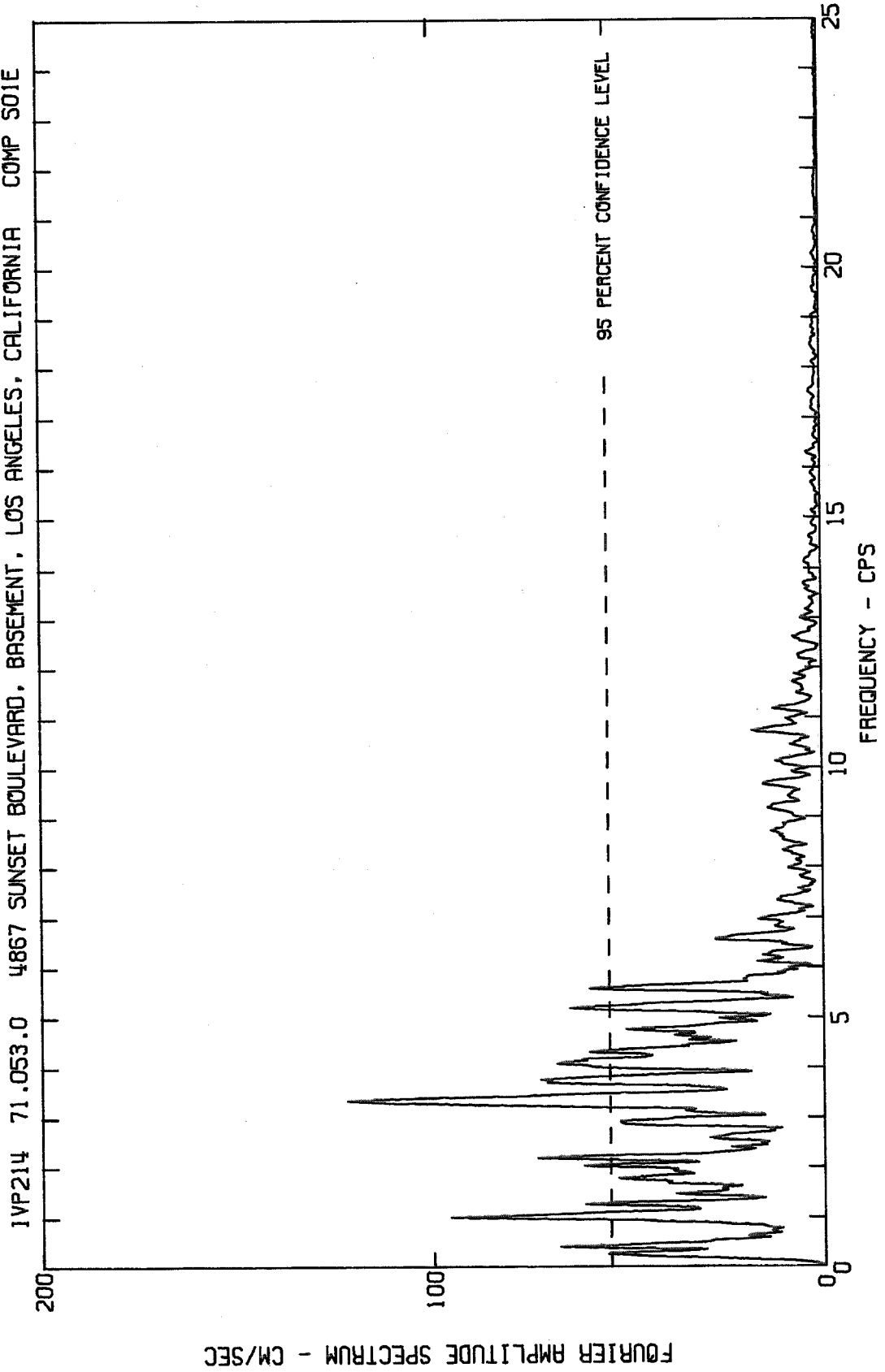




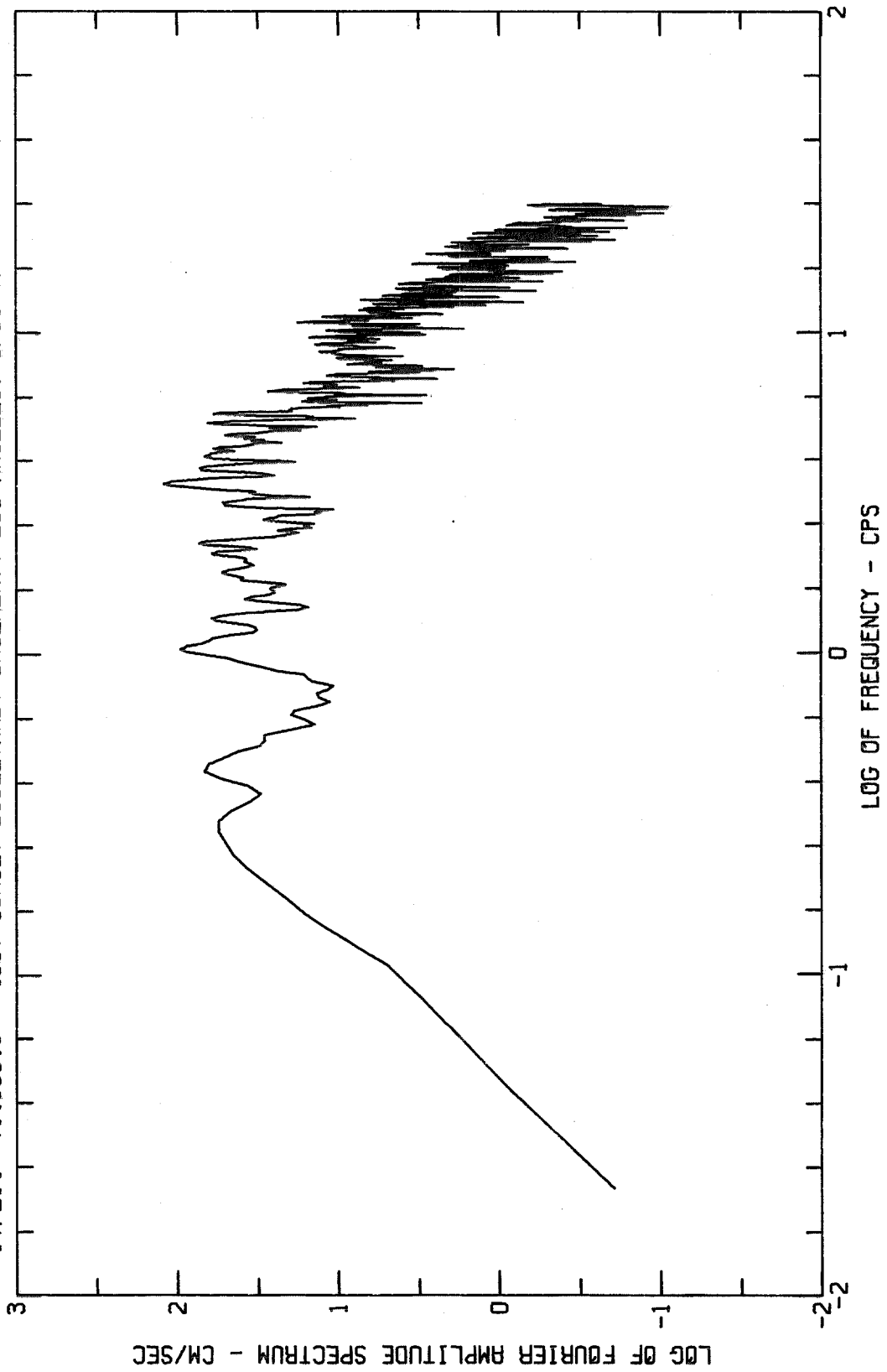
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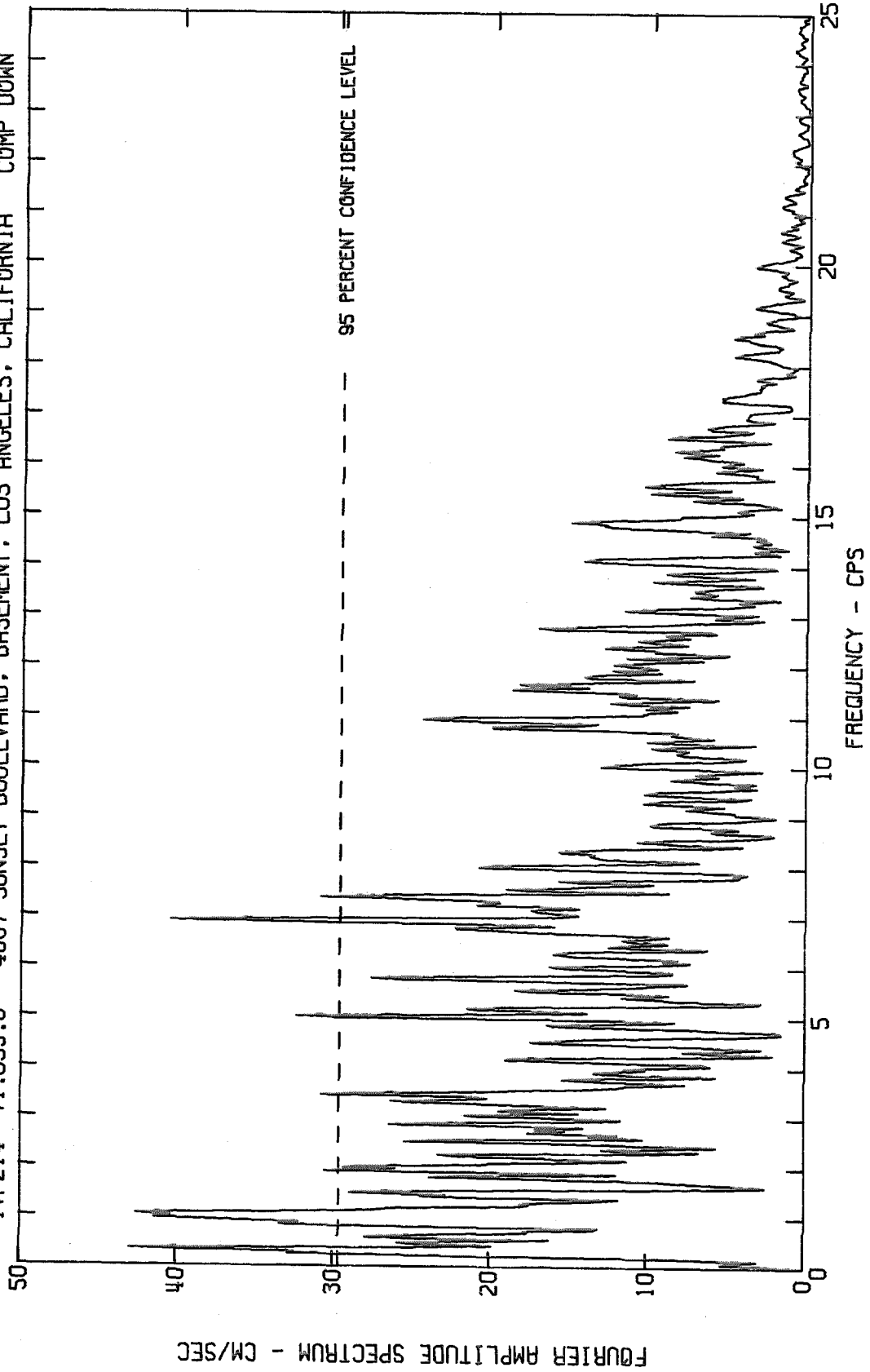
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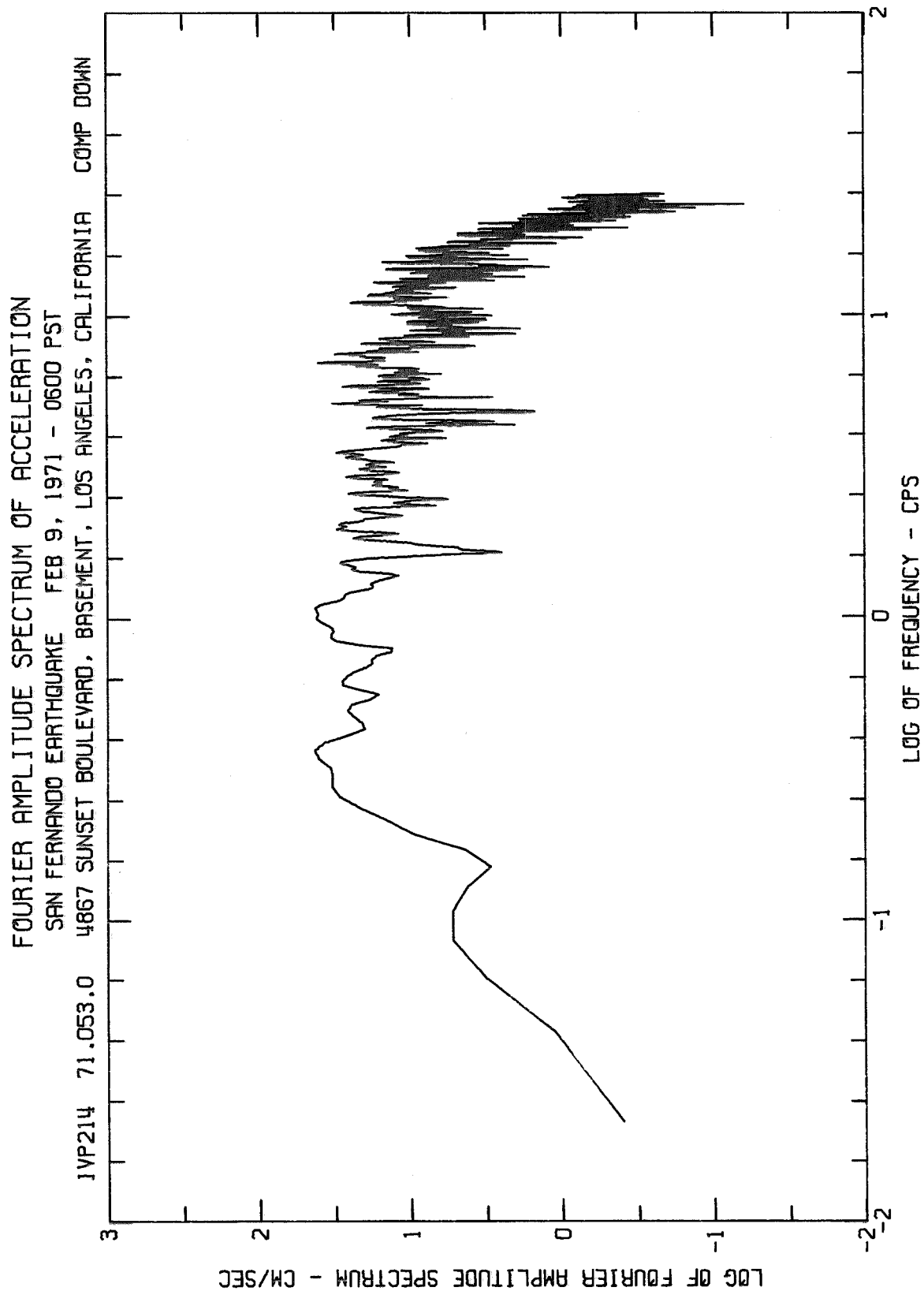


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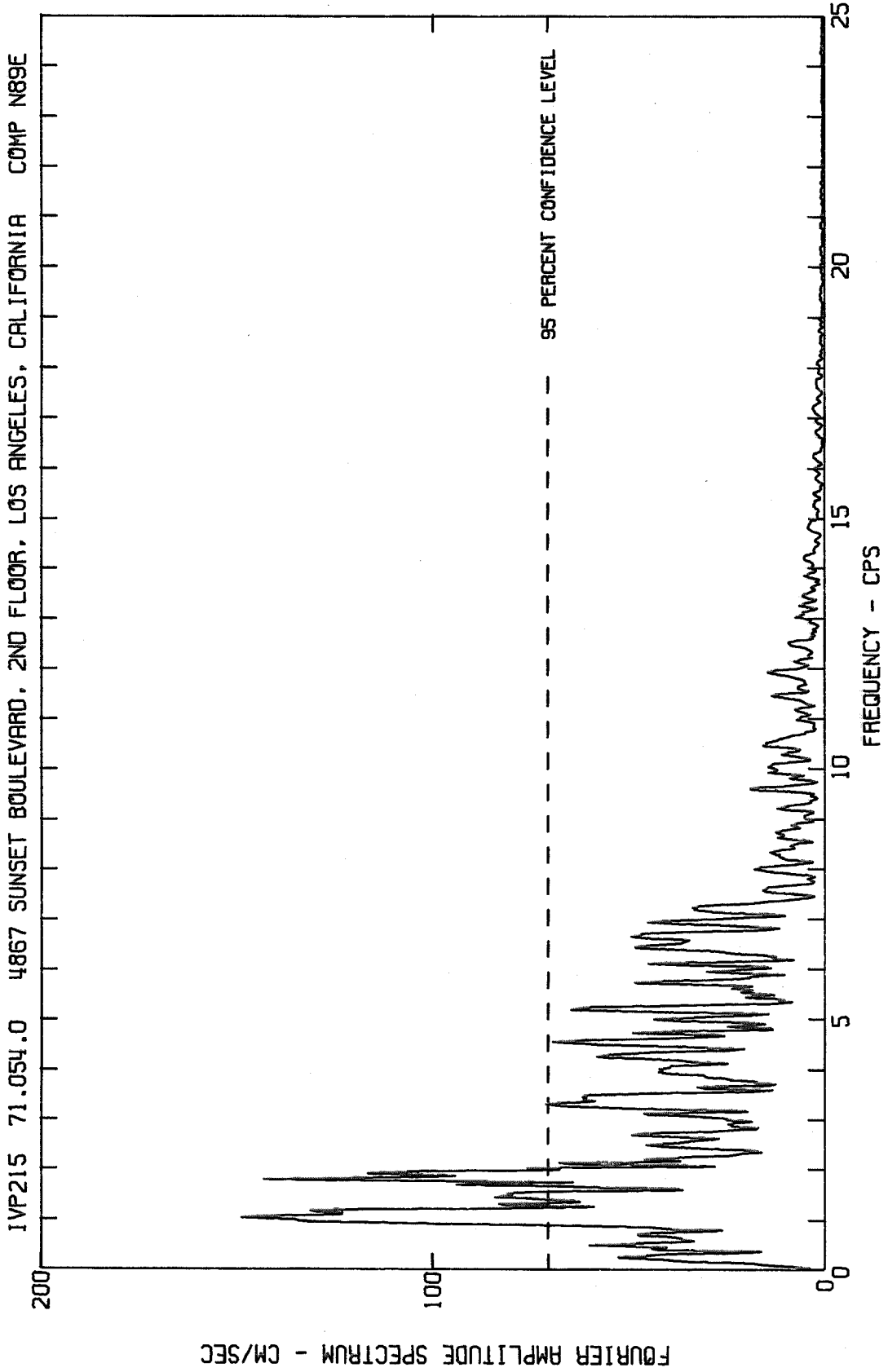




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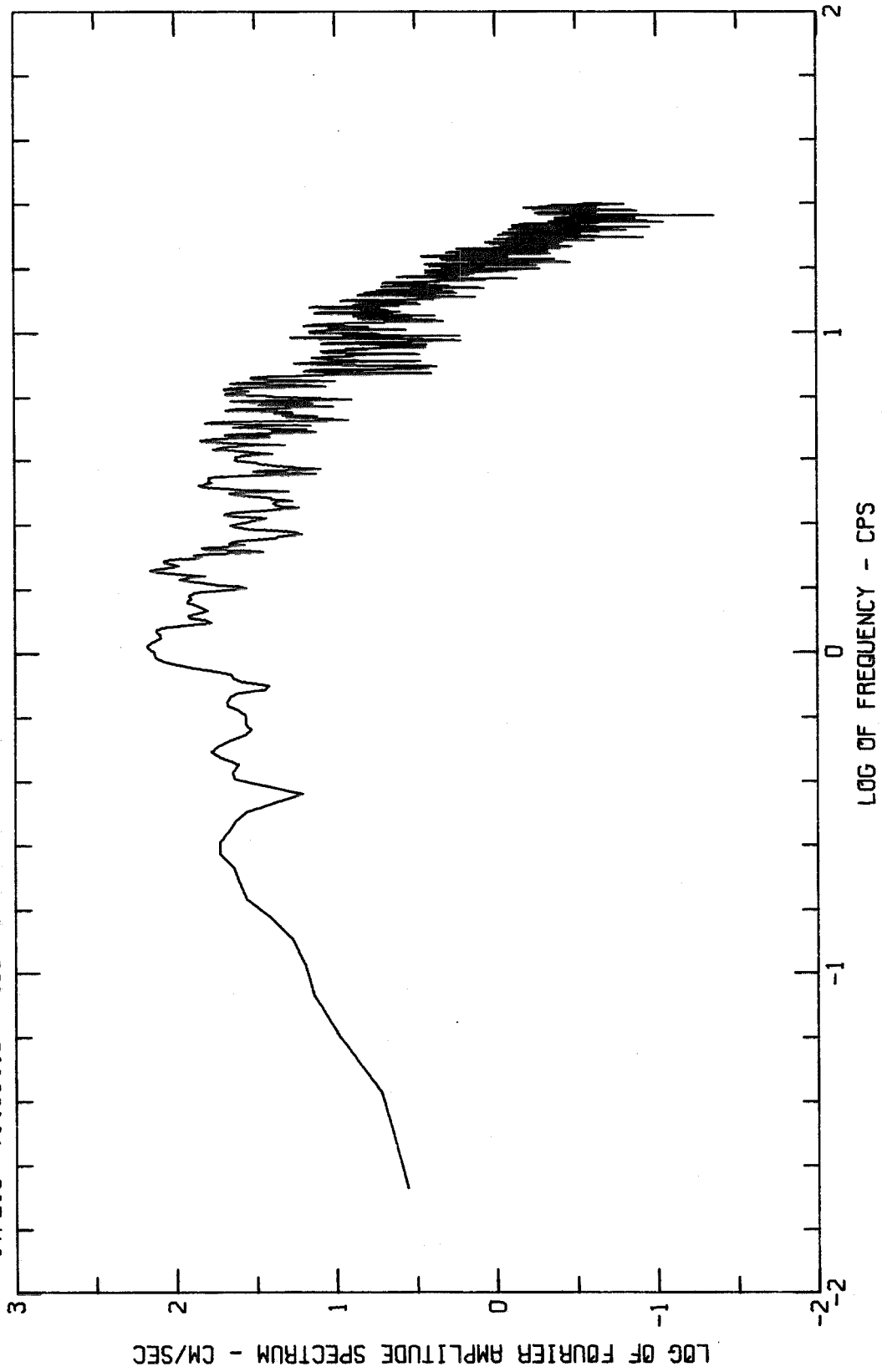


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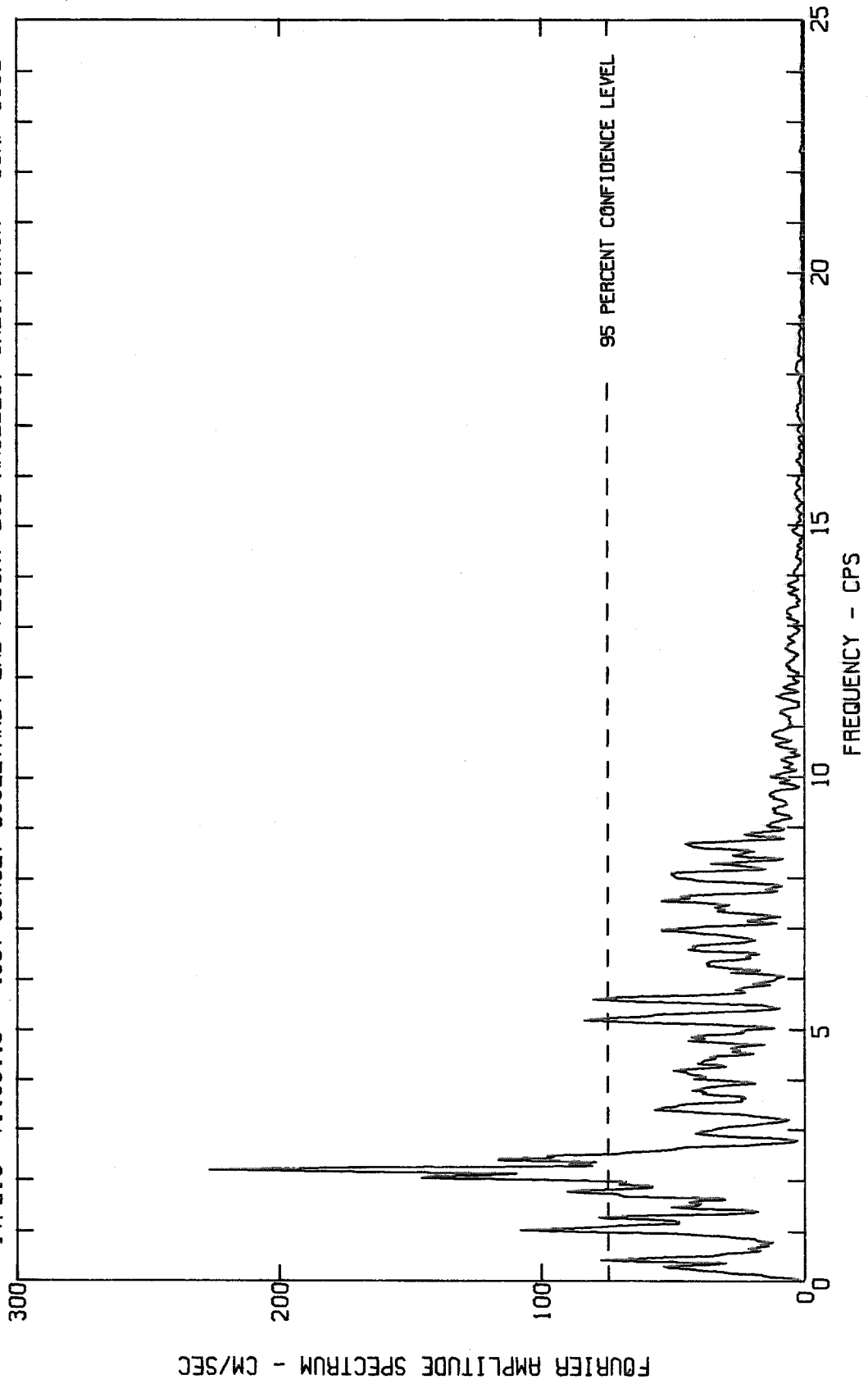
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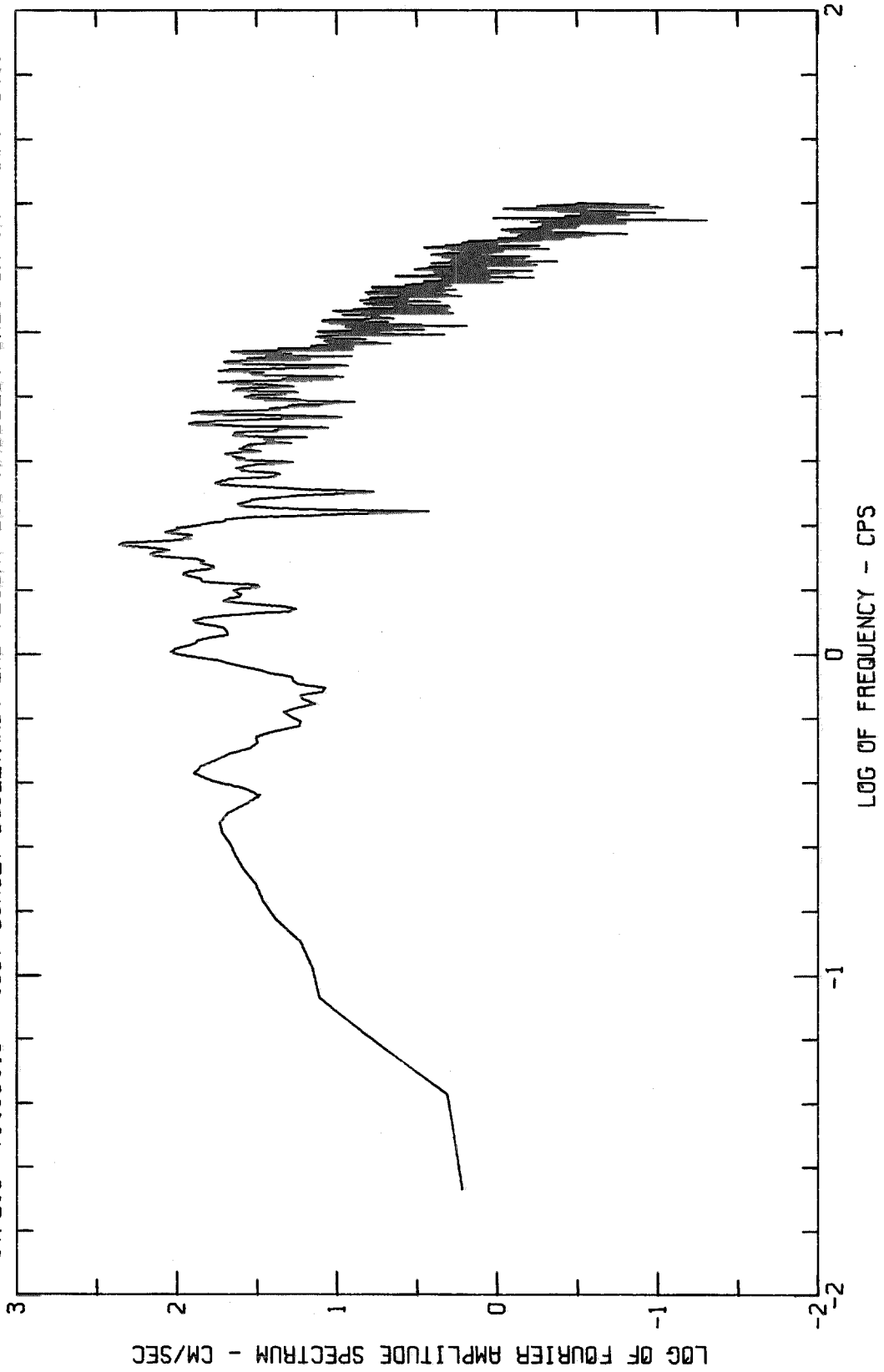
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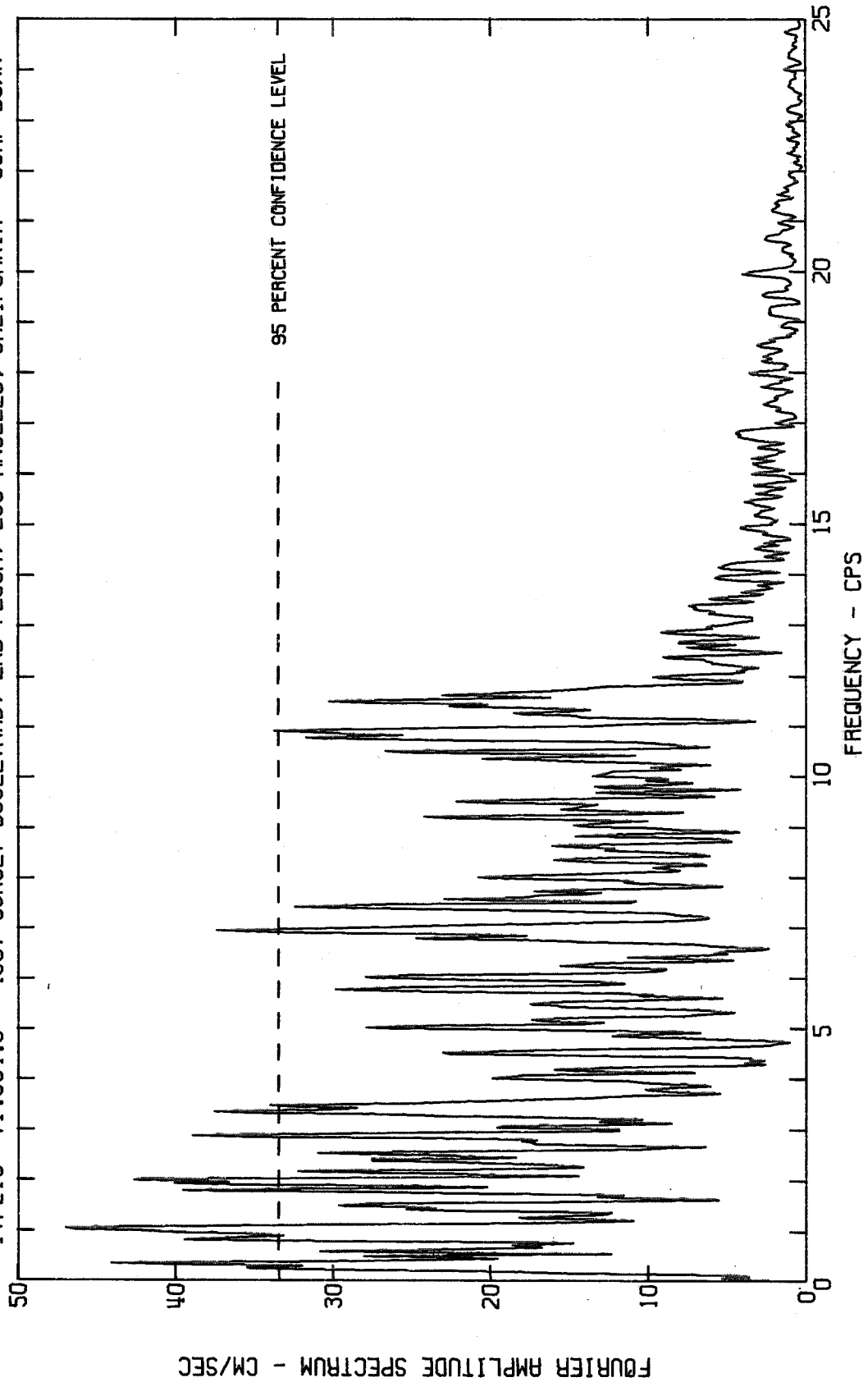
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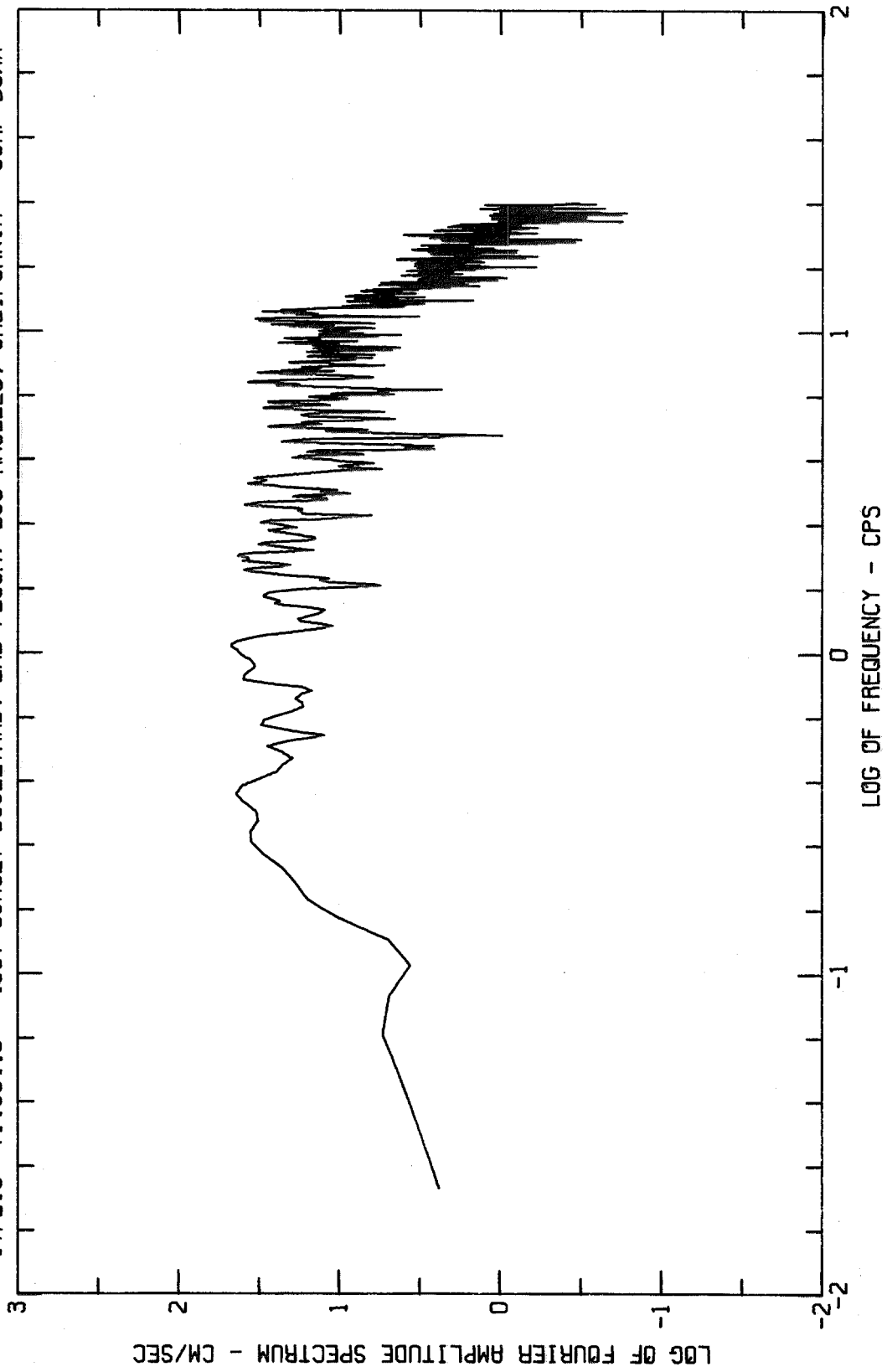
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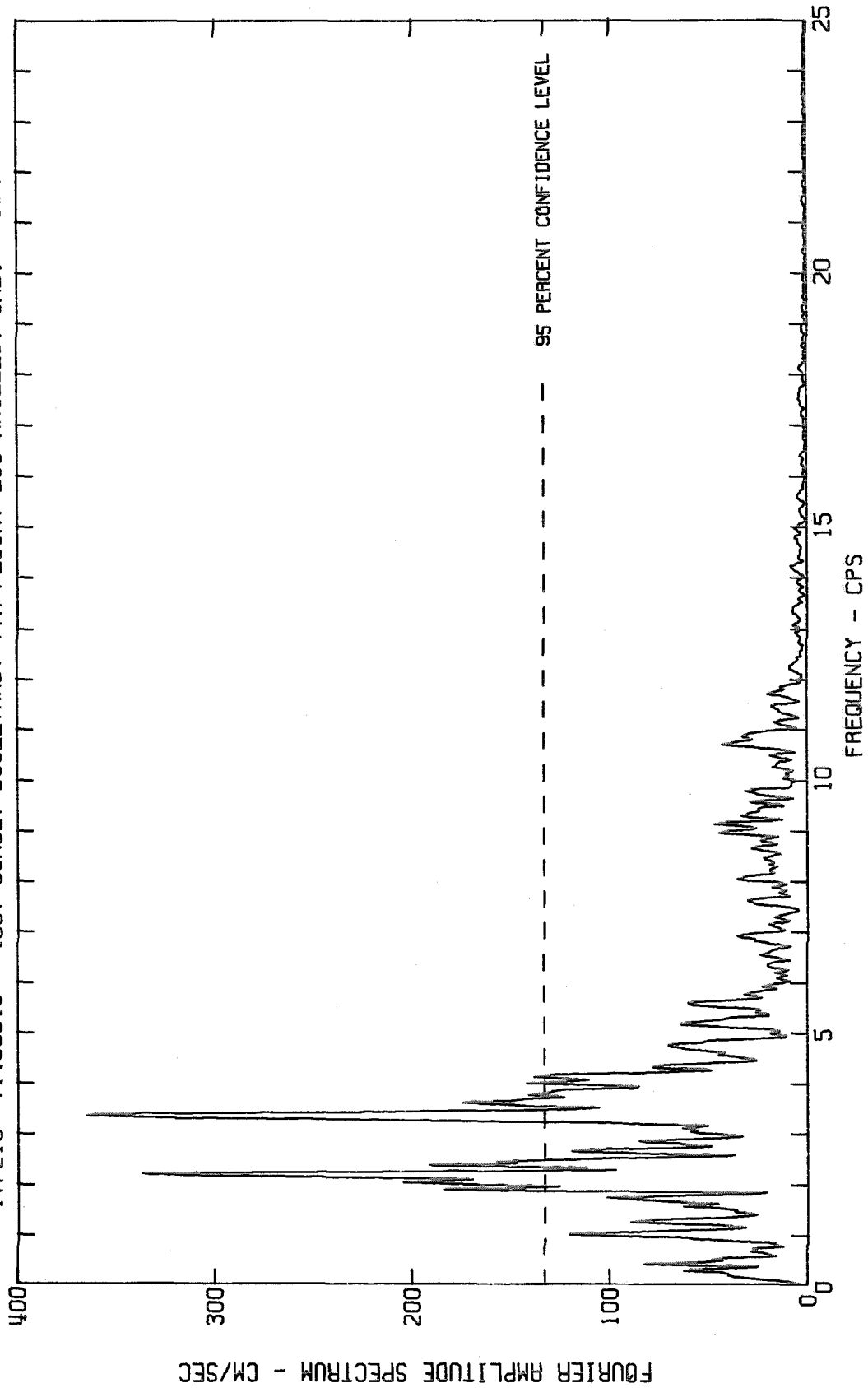
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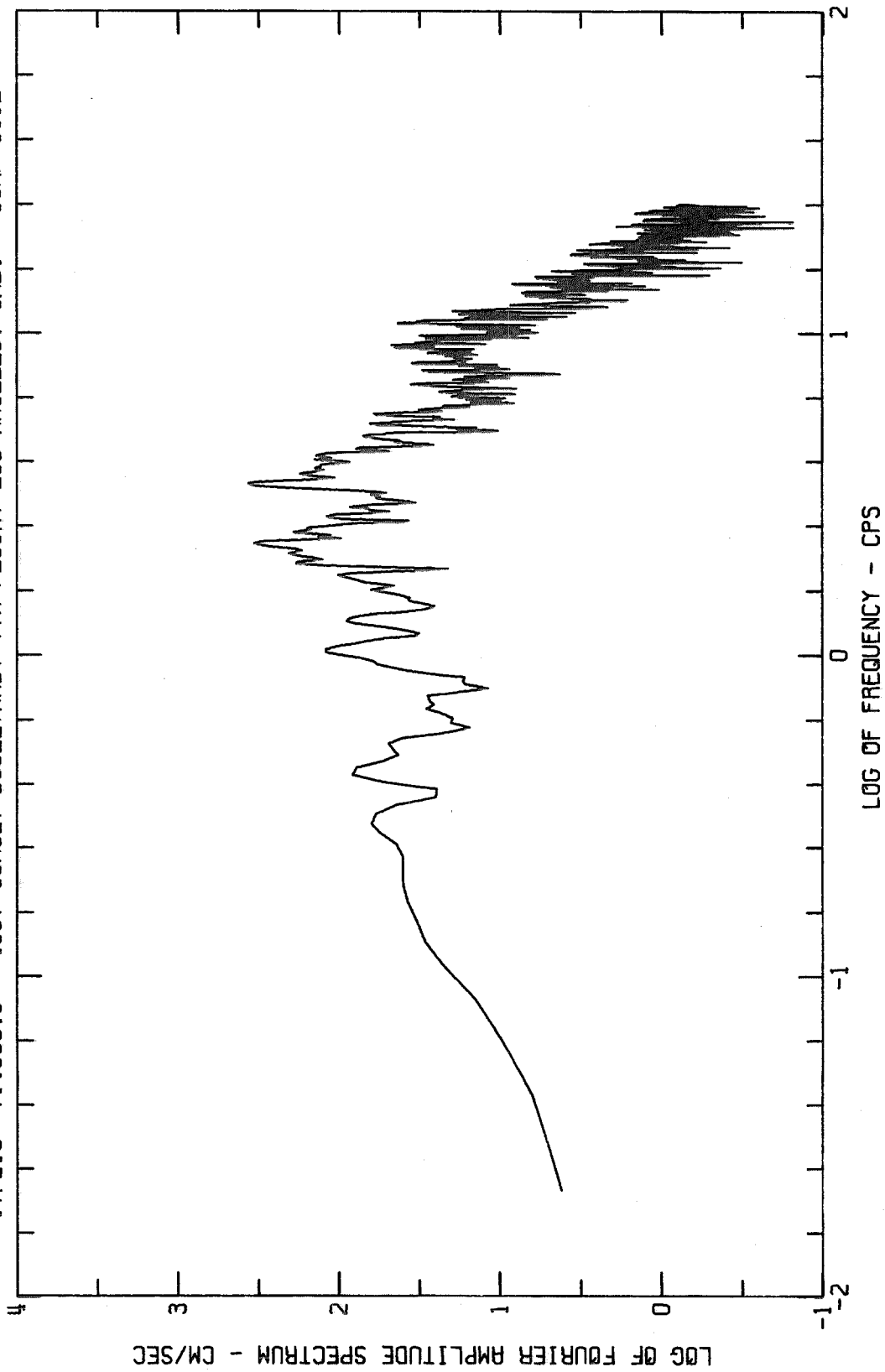
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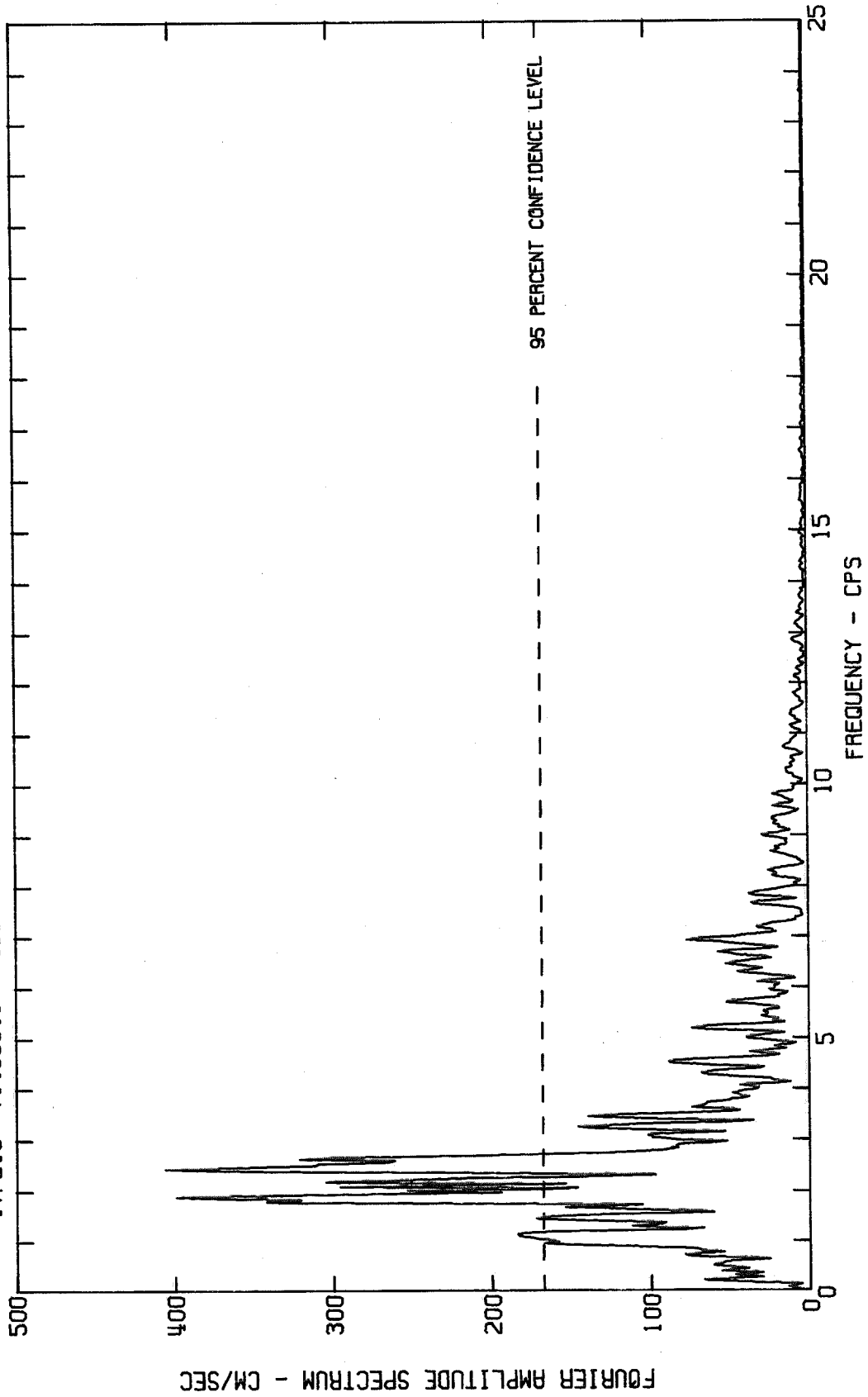
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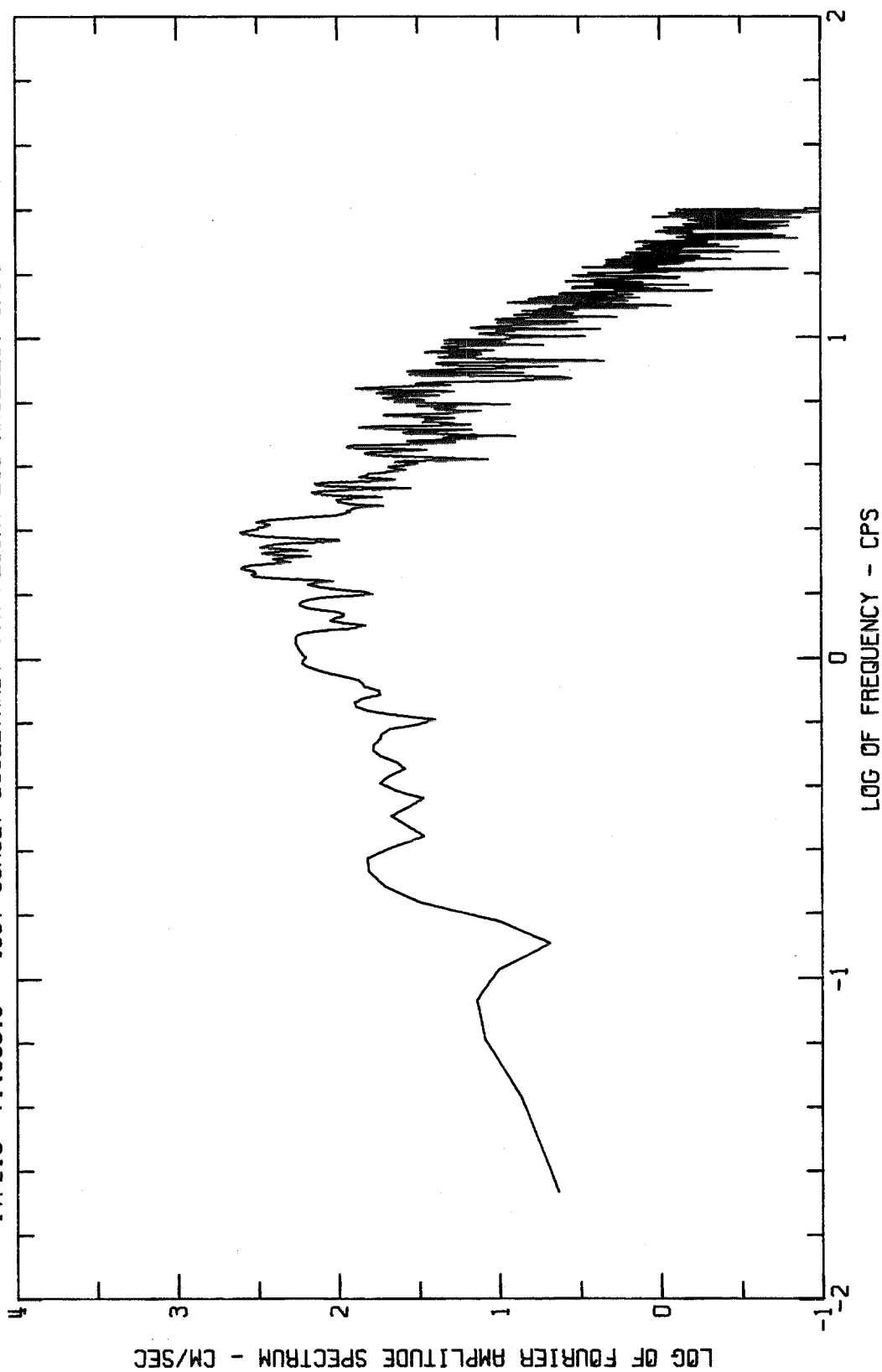
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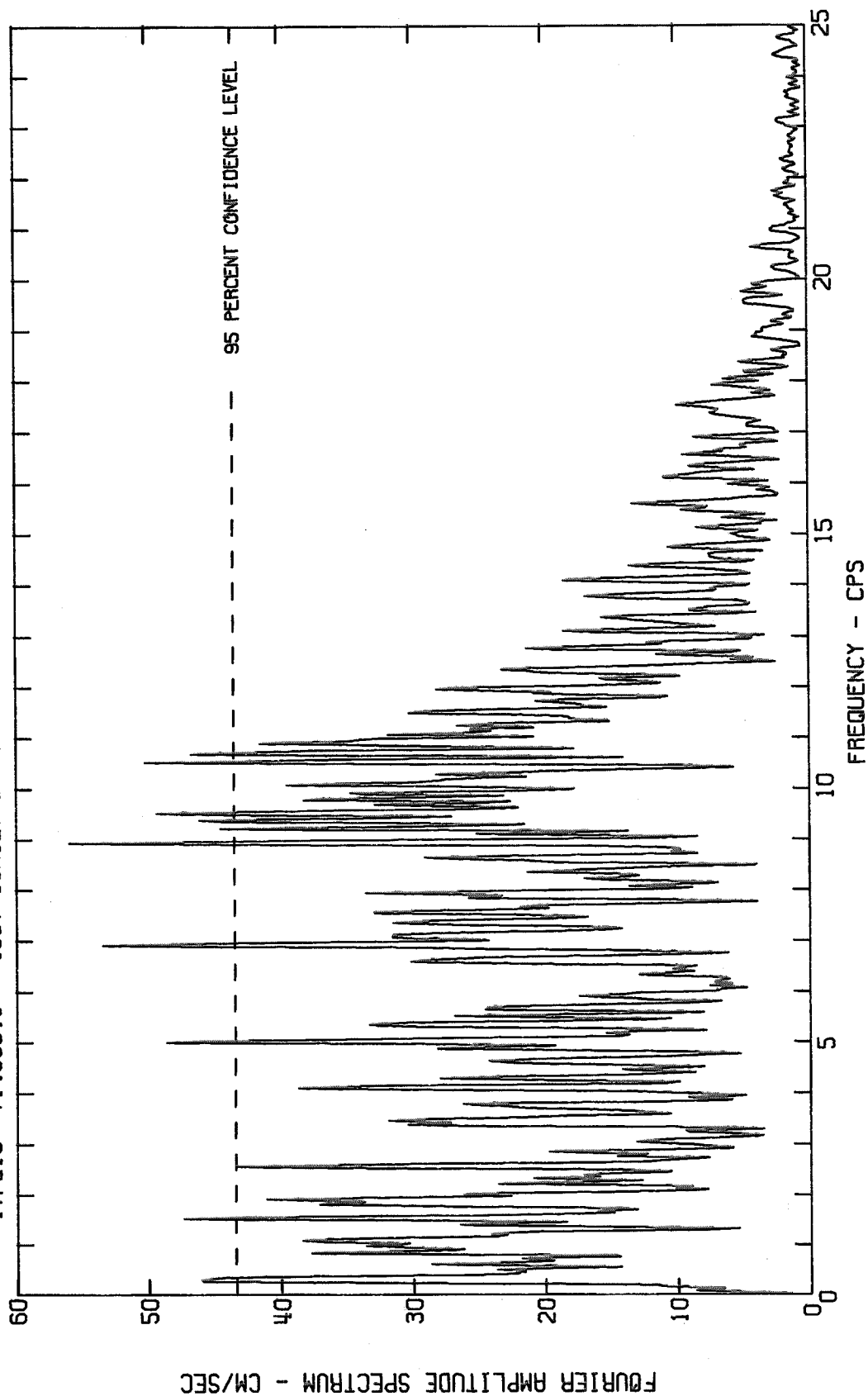
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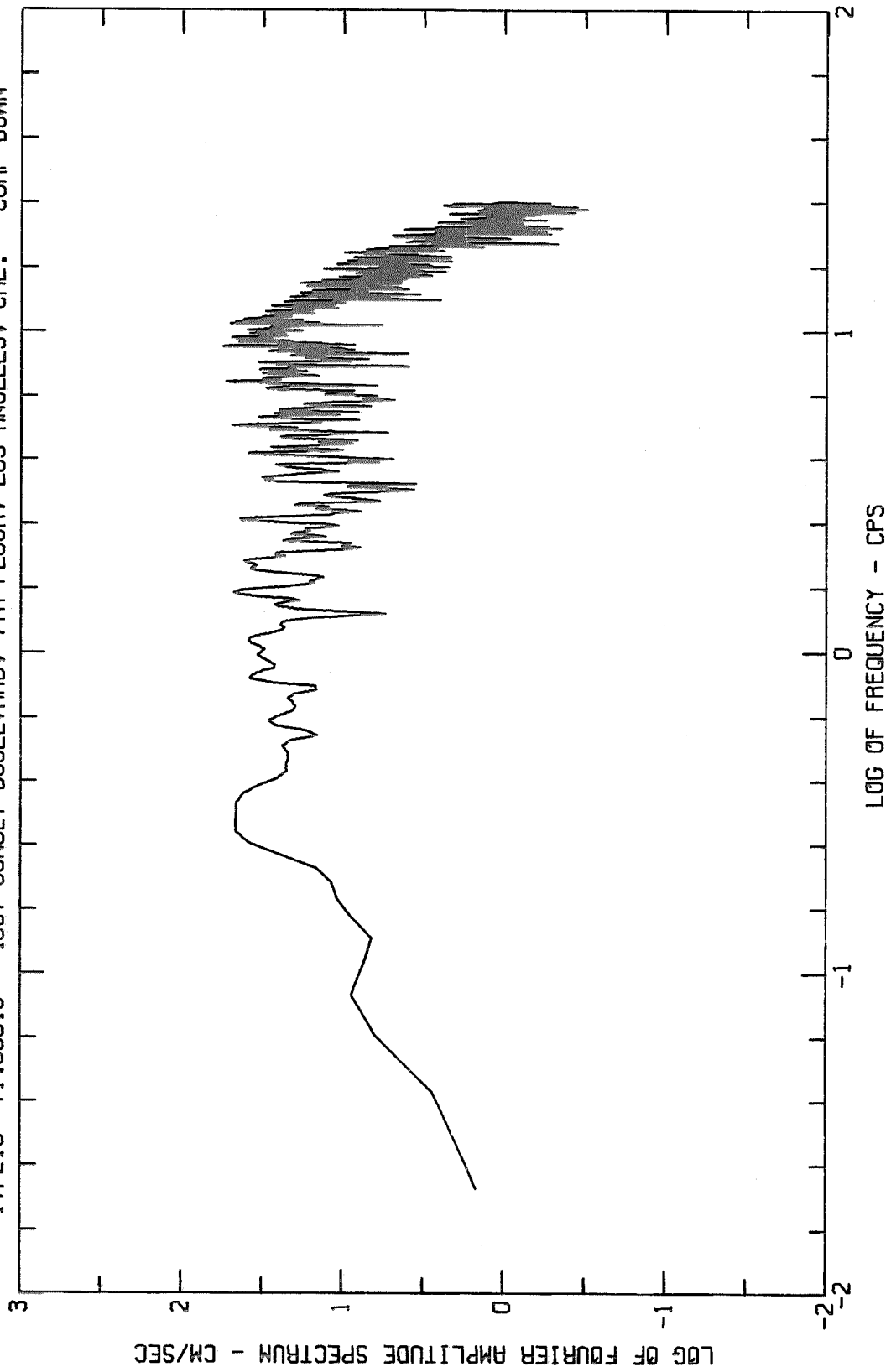
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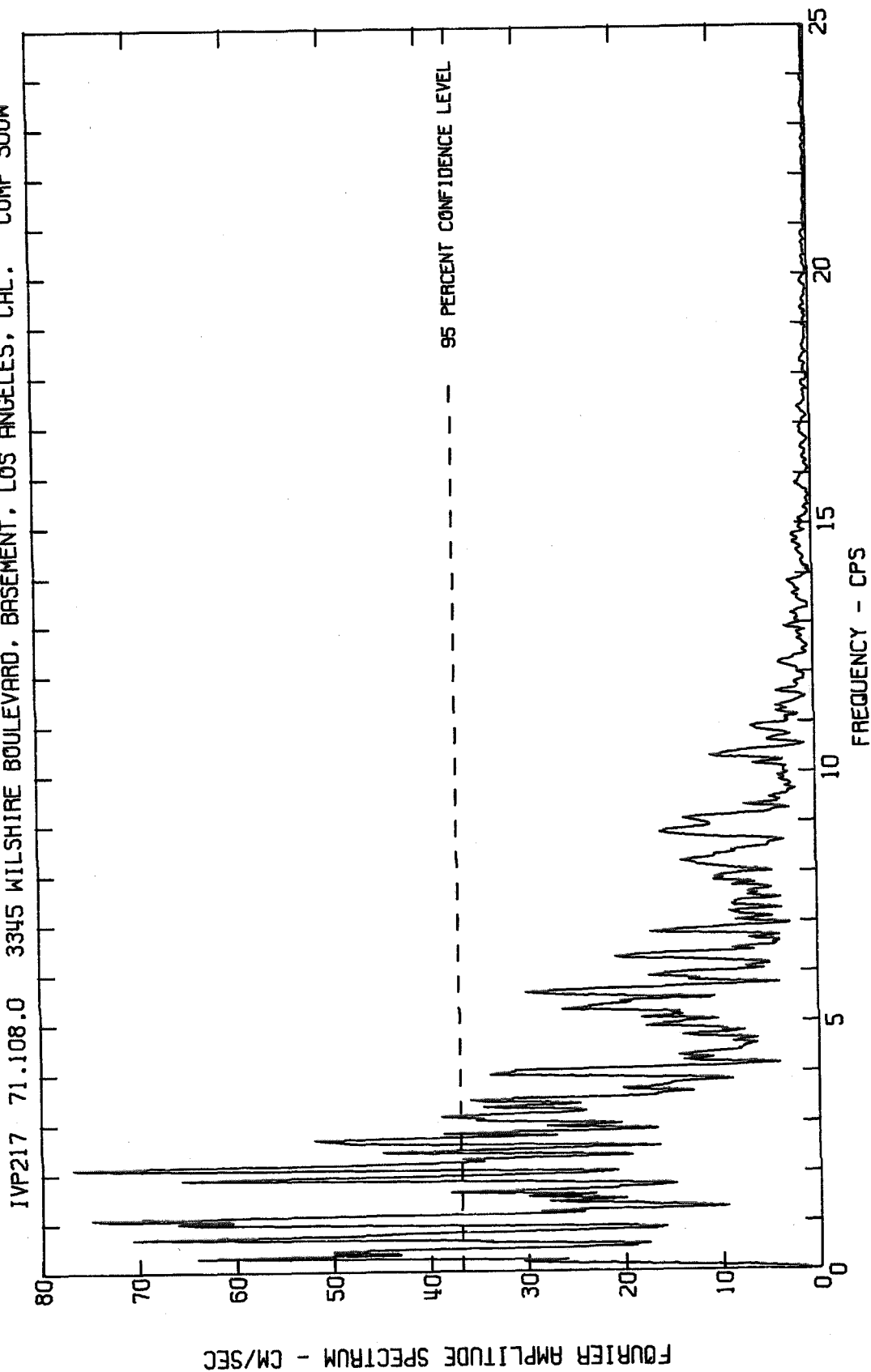
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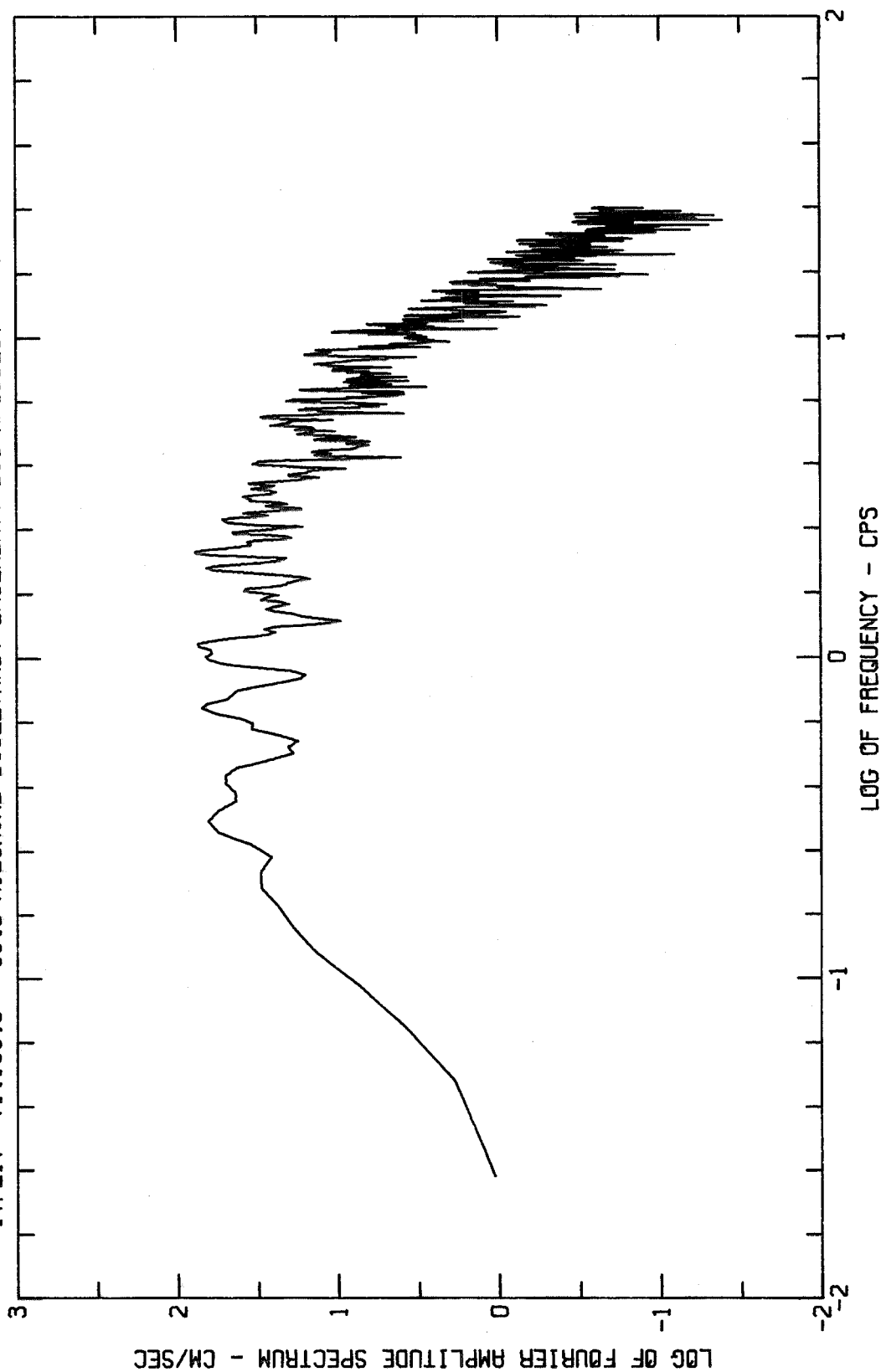
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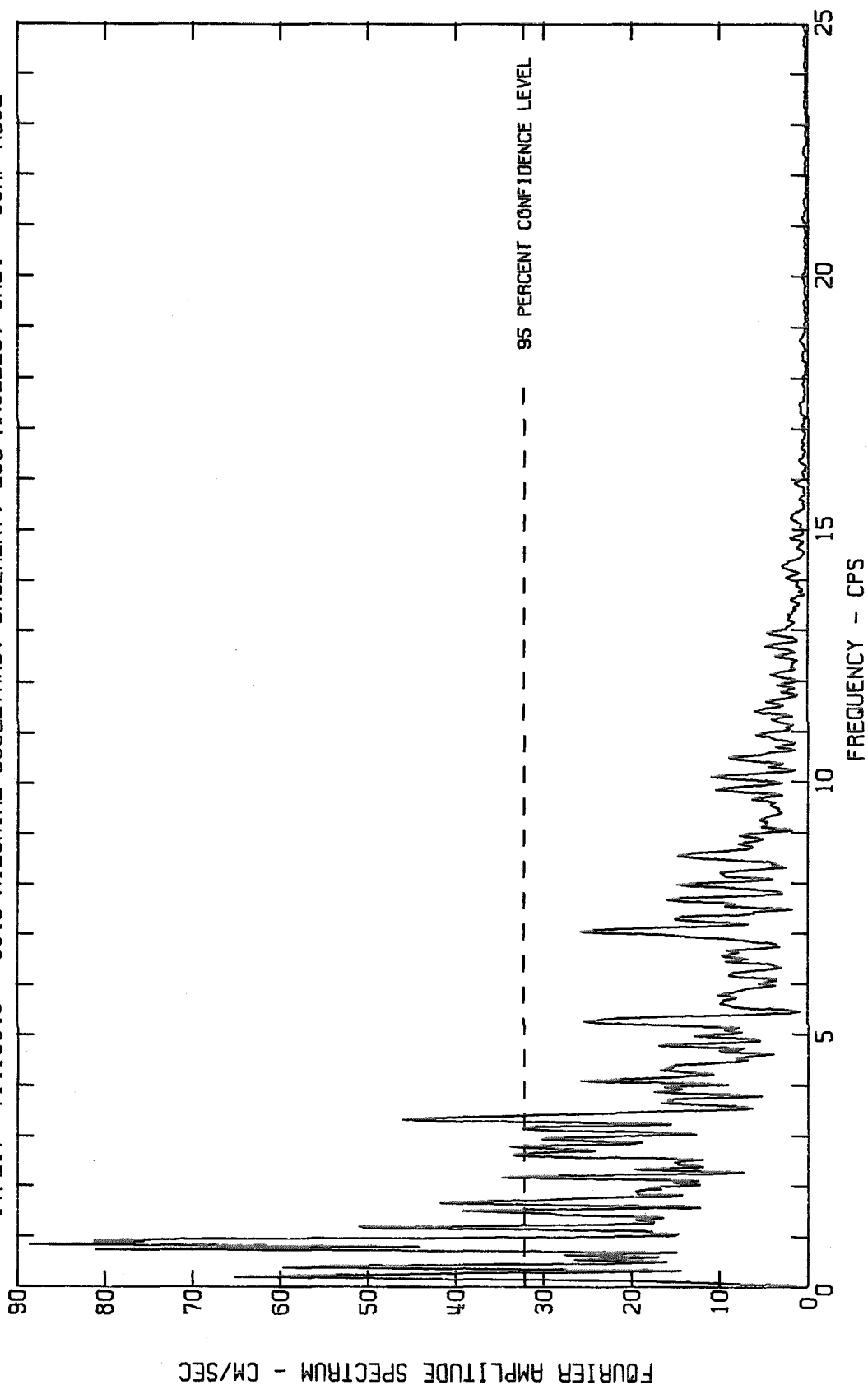
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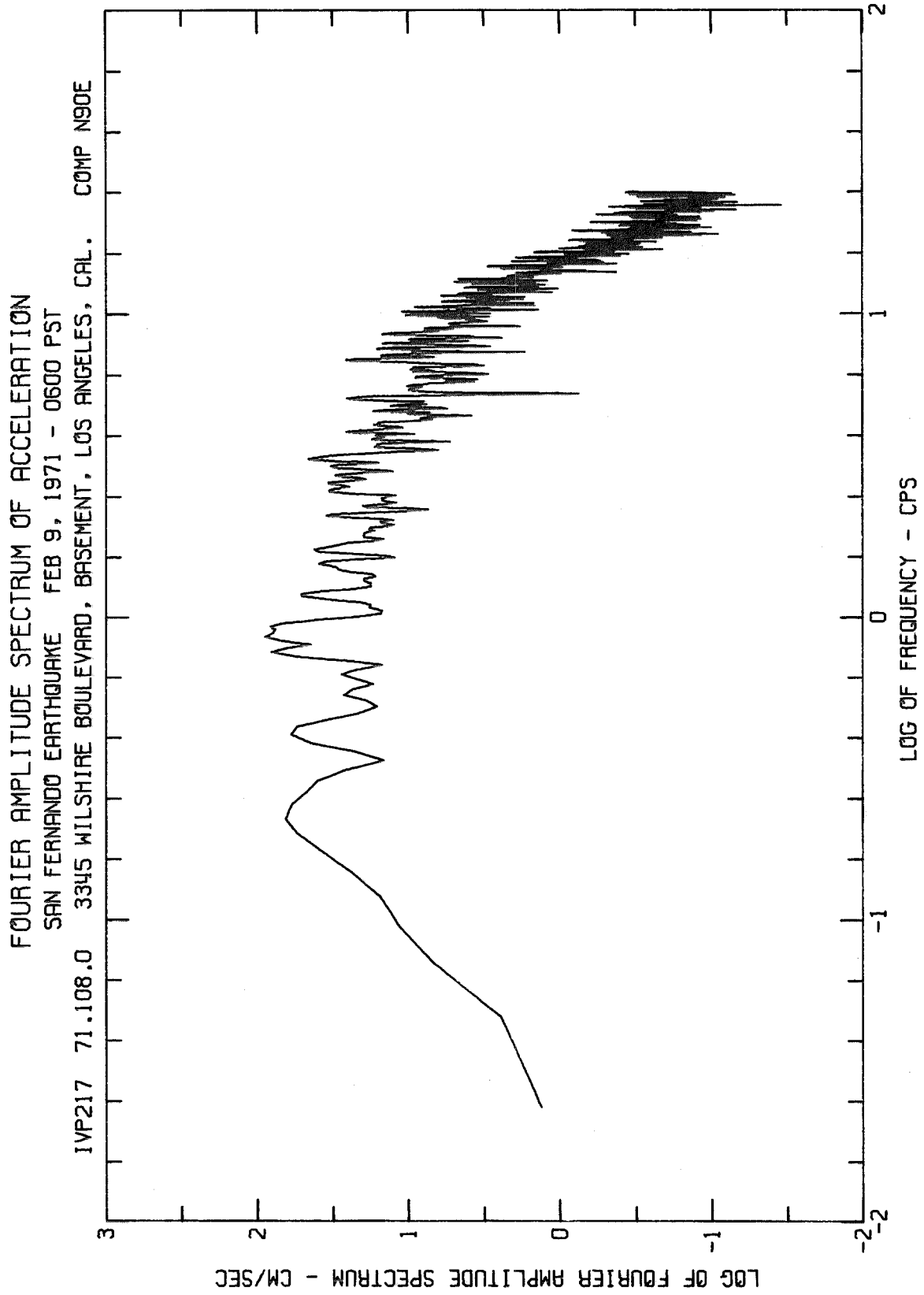


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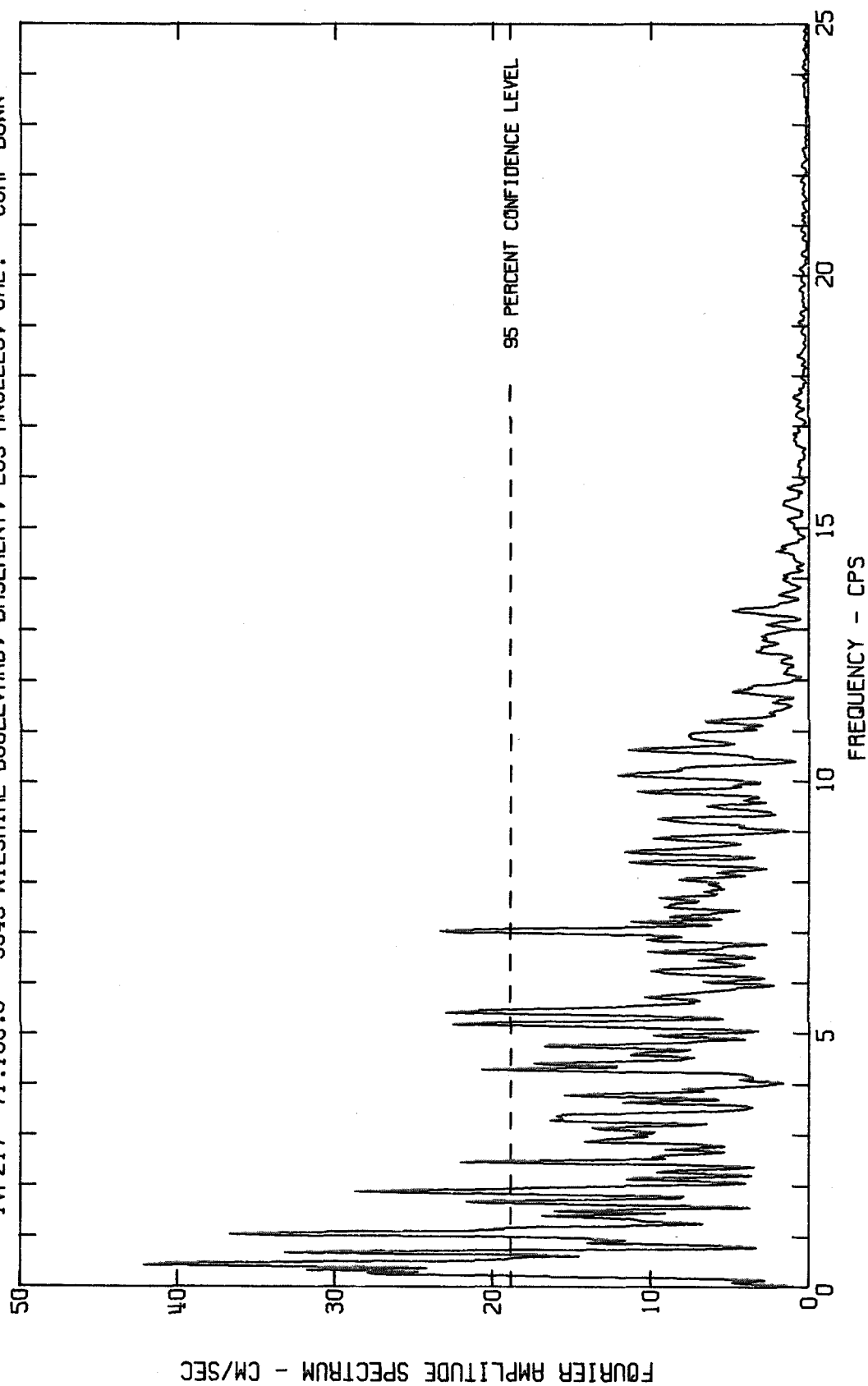




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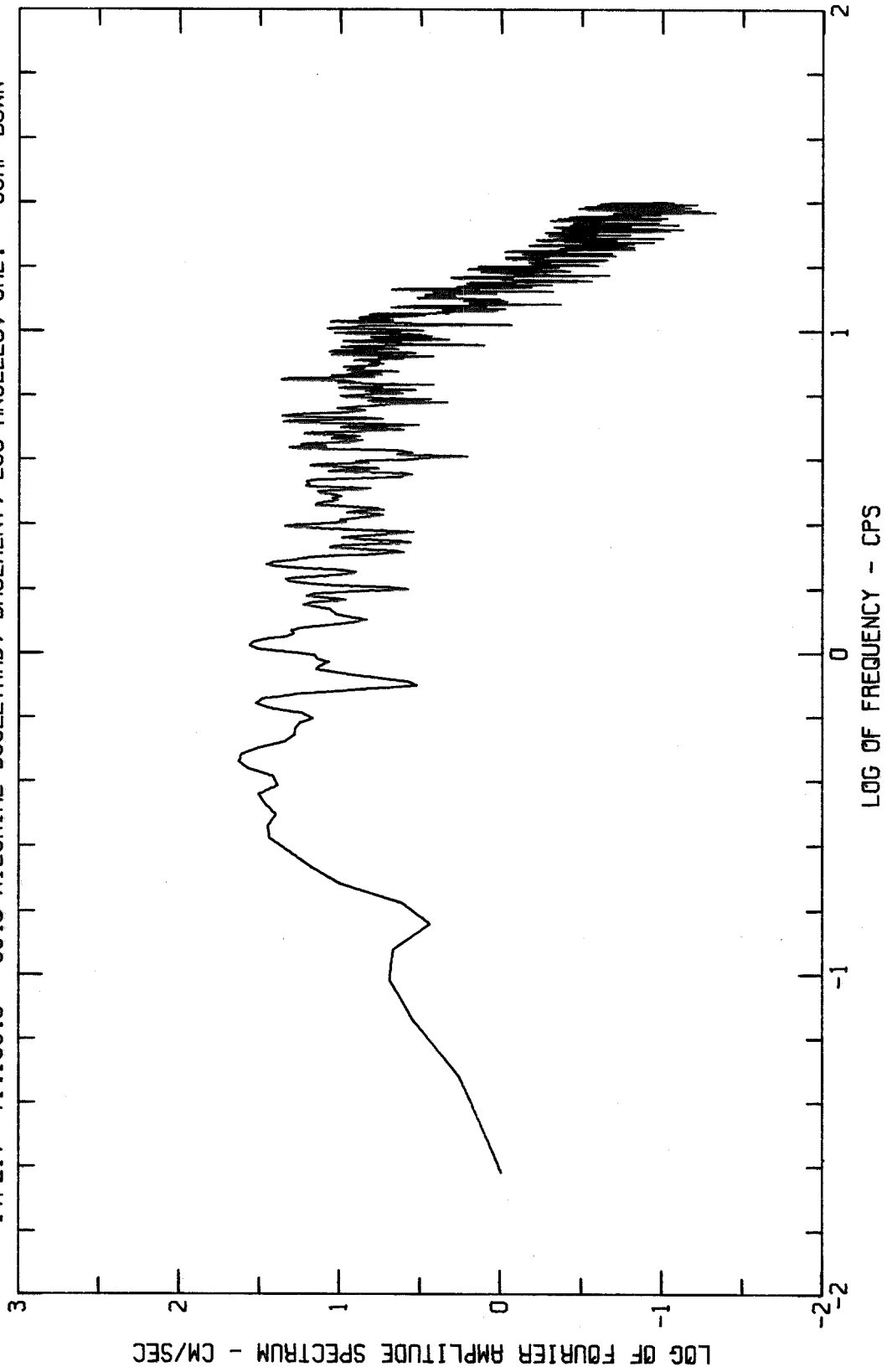
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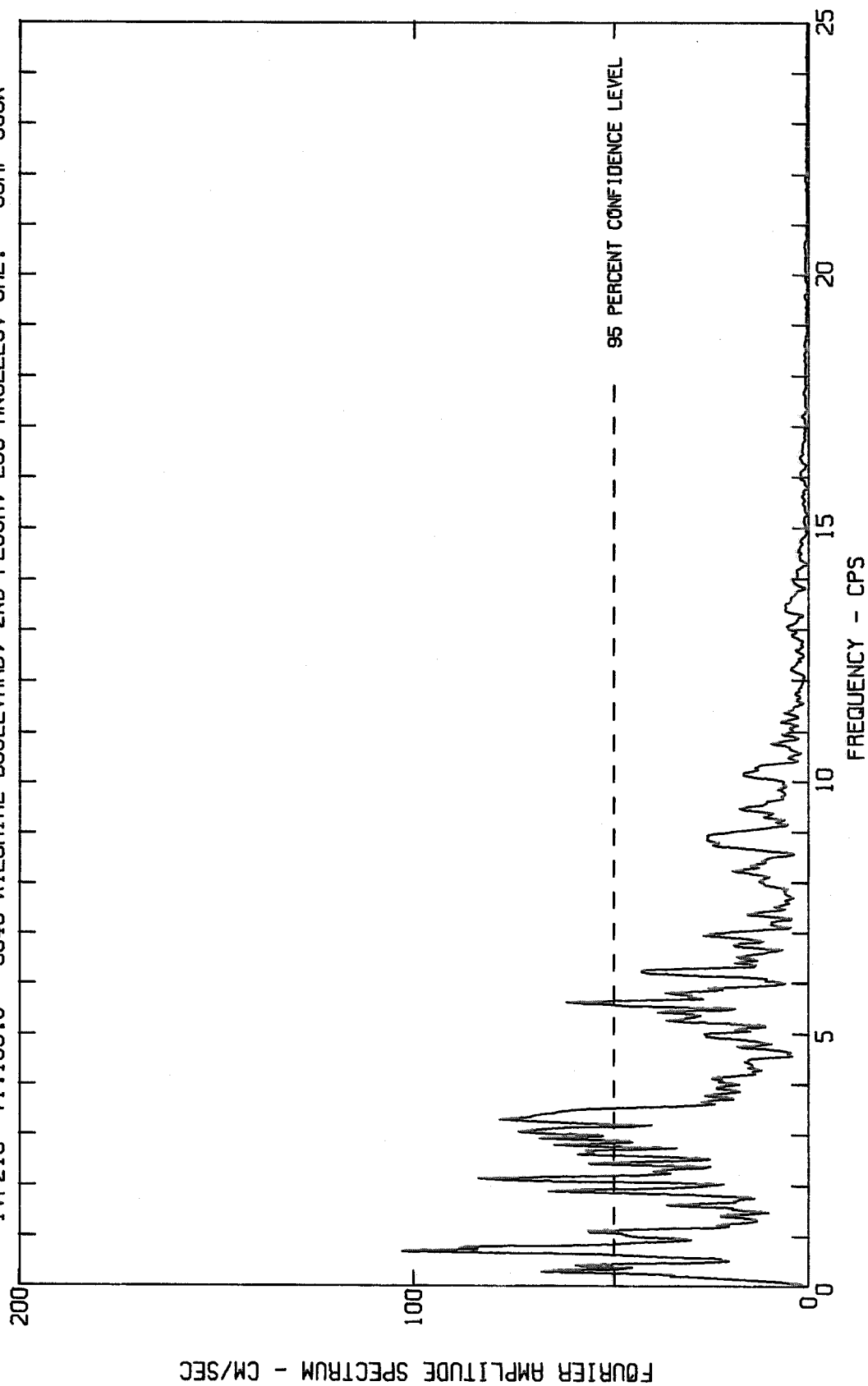
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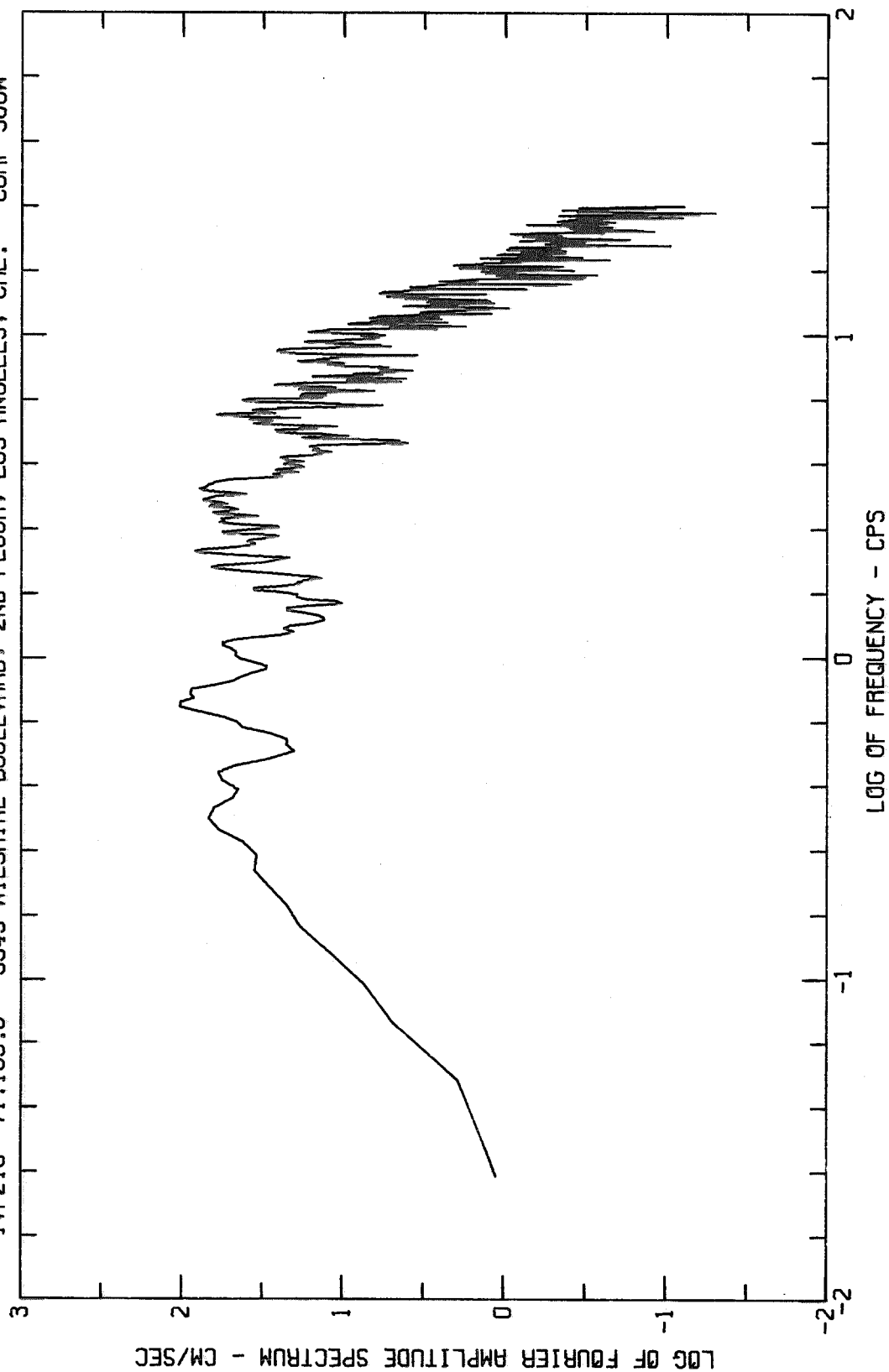
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FOURIER AMPLITUDE SPECTRUM OF ACCELERATION

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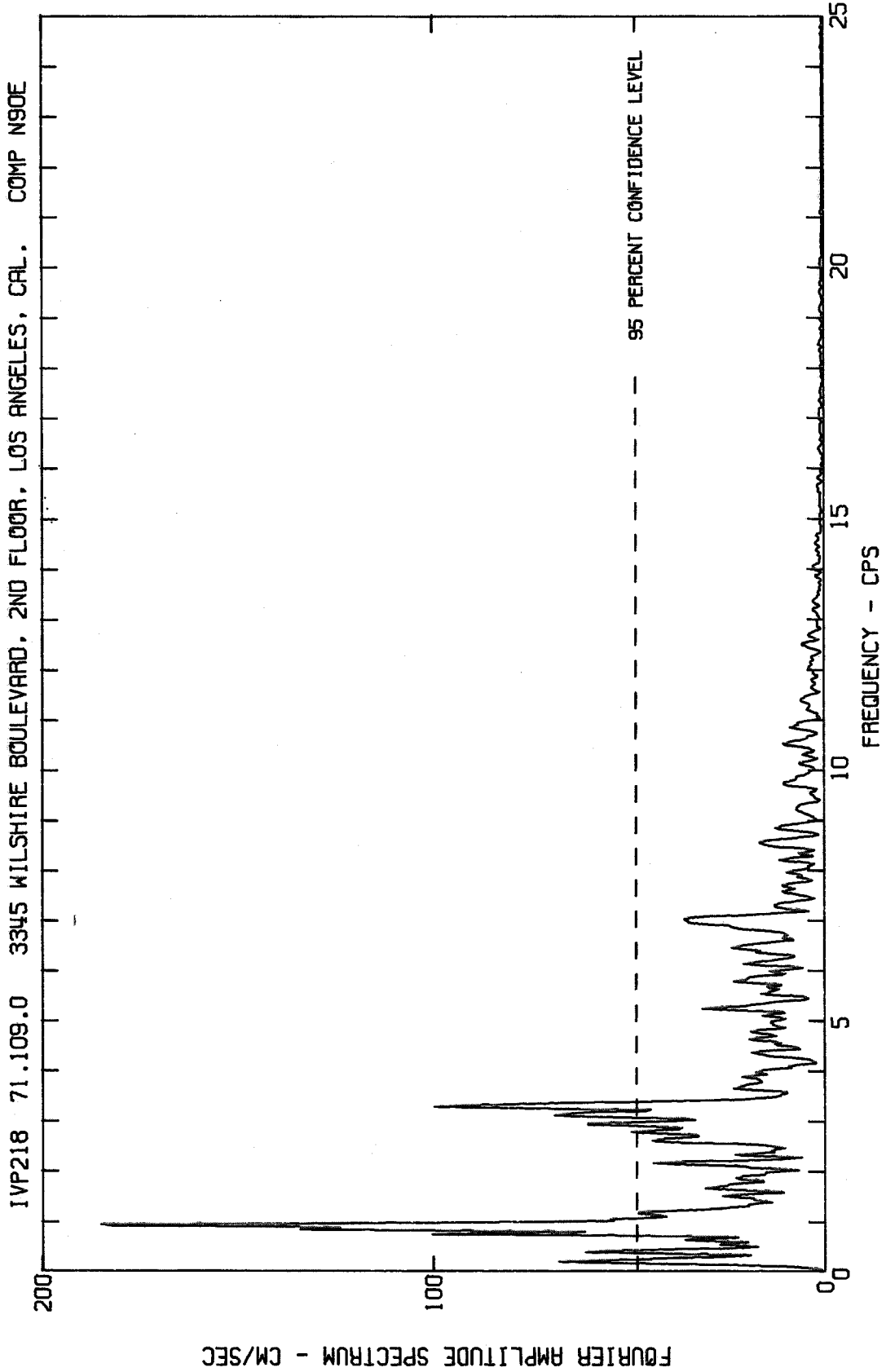
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FOURIER AMPLITUDE SPECTRUM OF ACCELERATION

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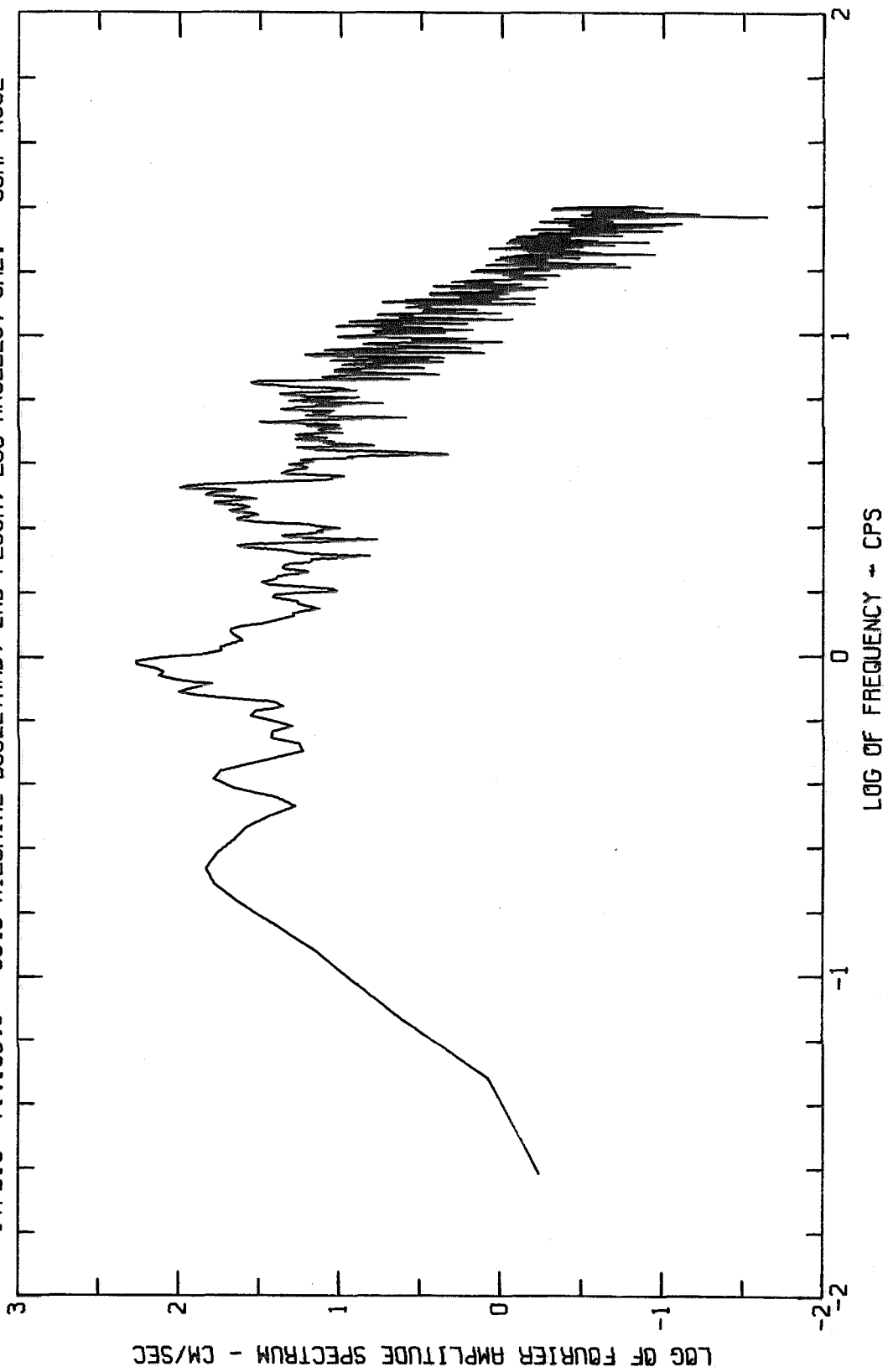
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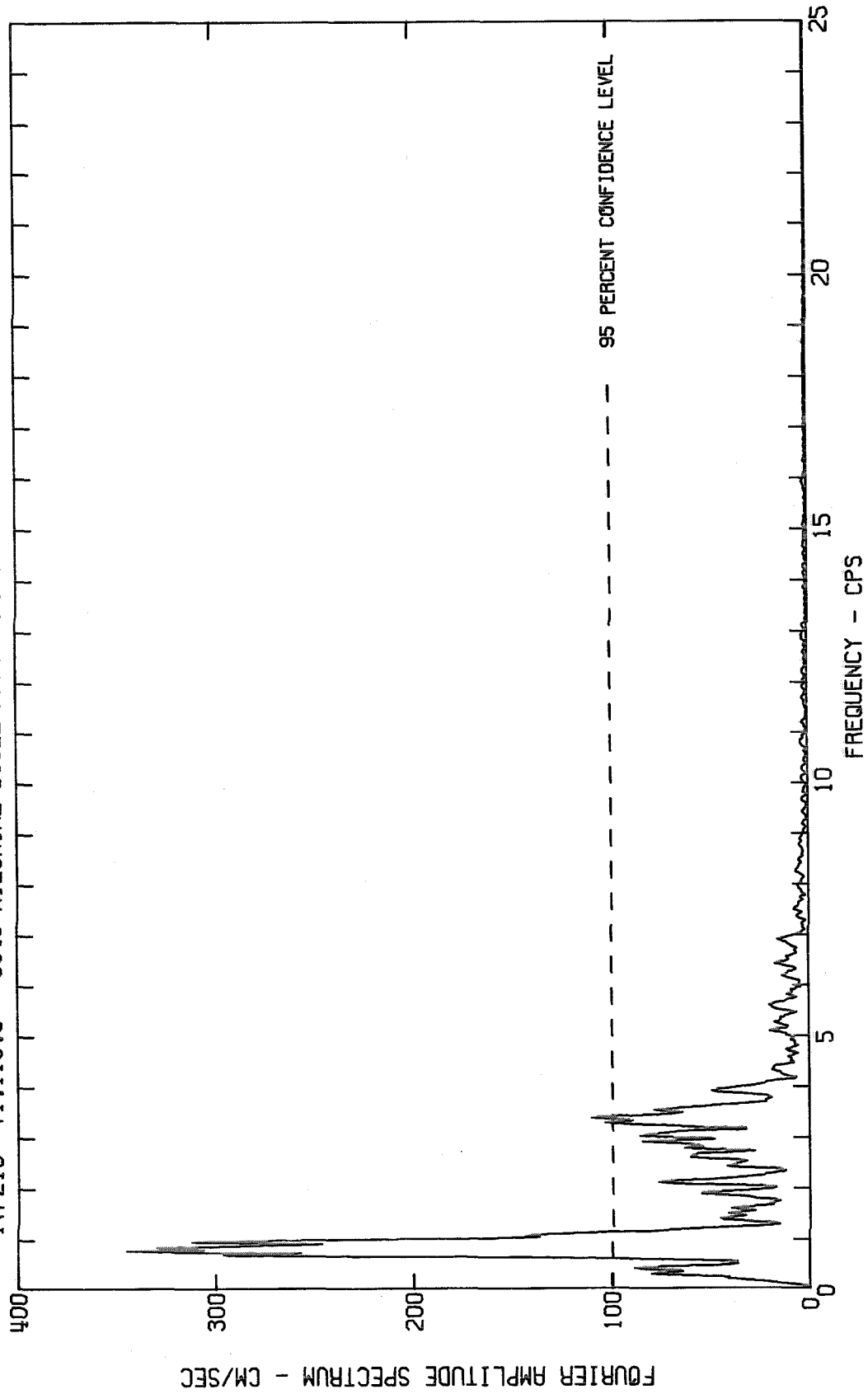
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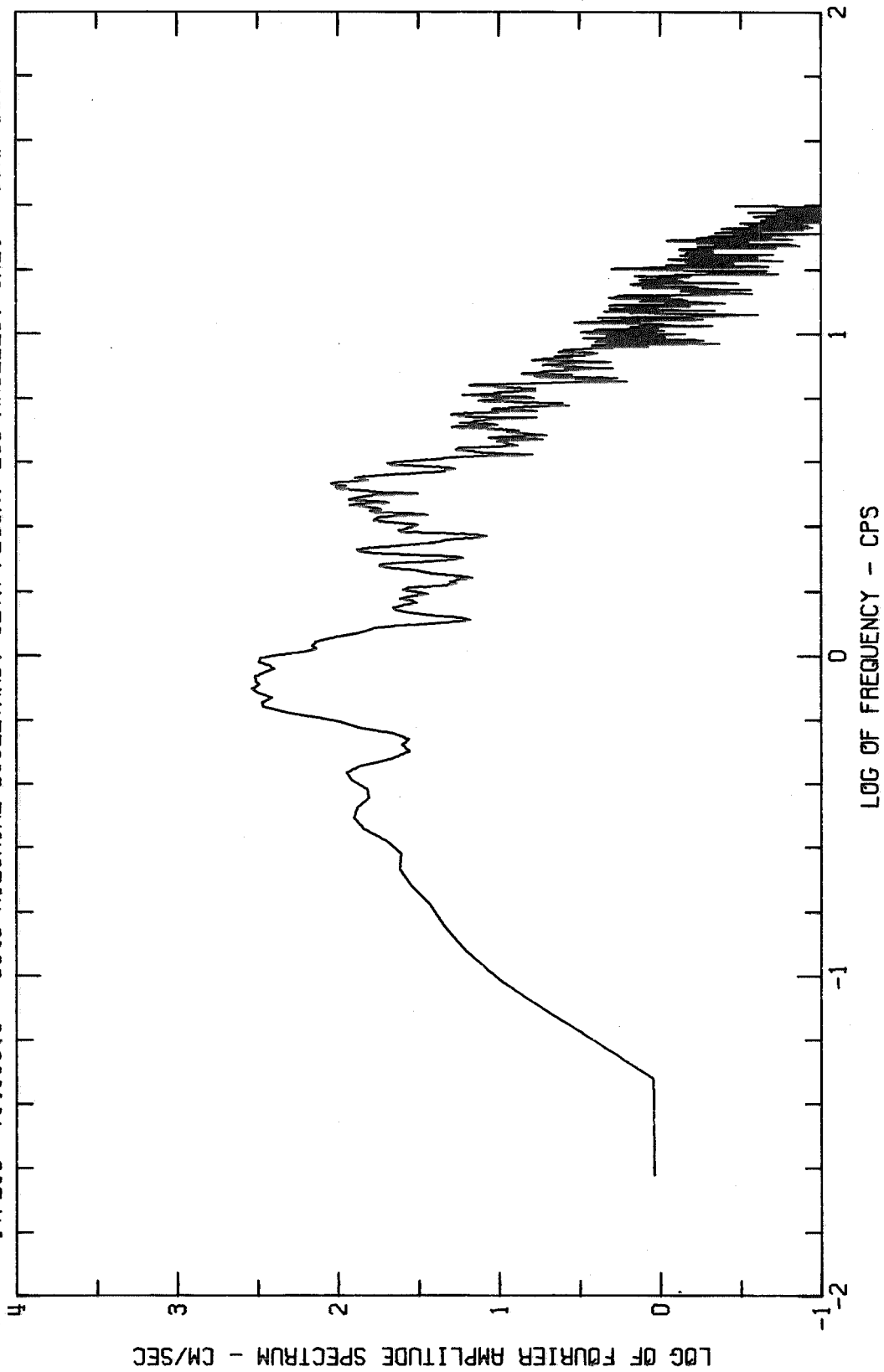
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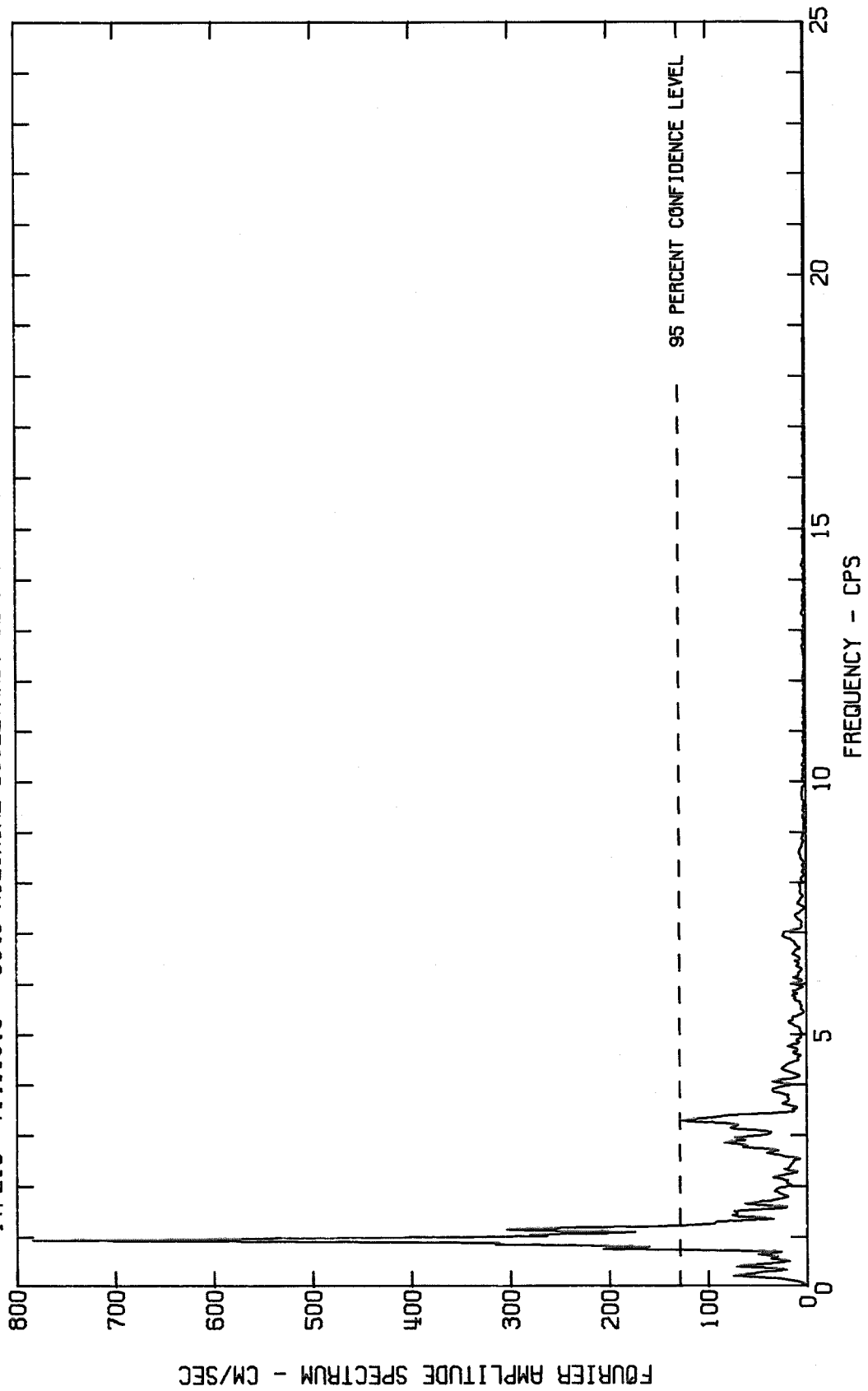
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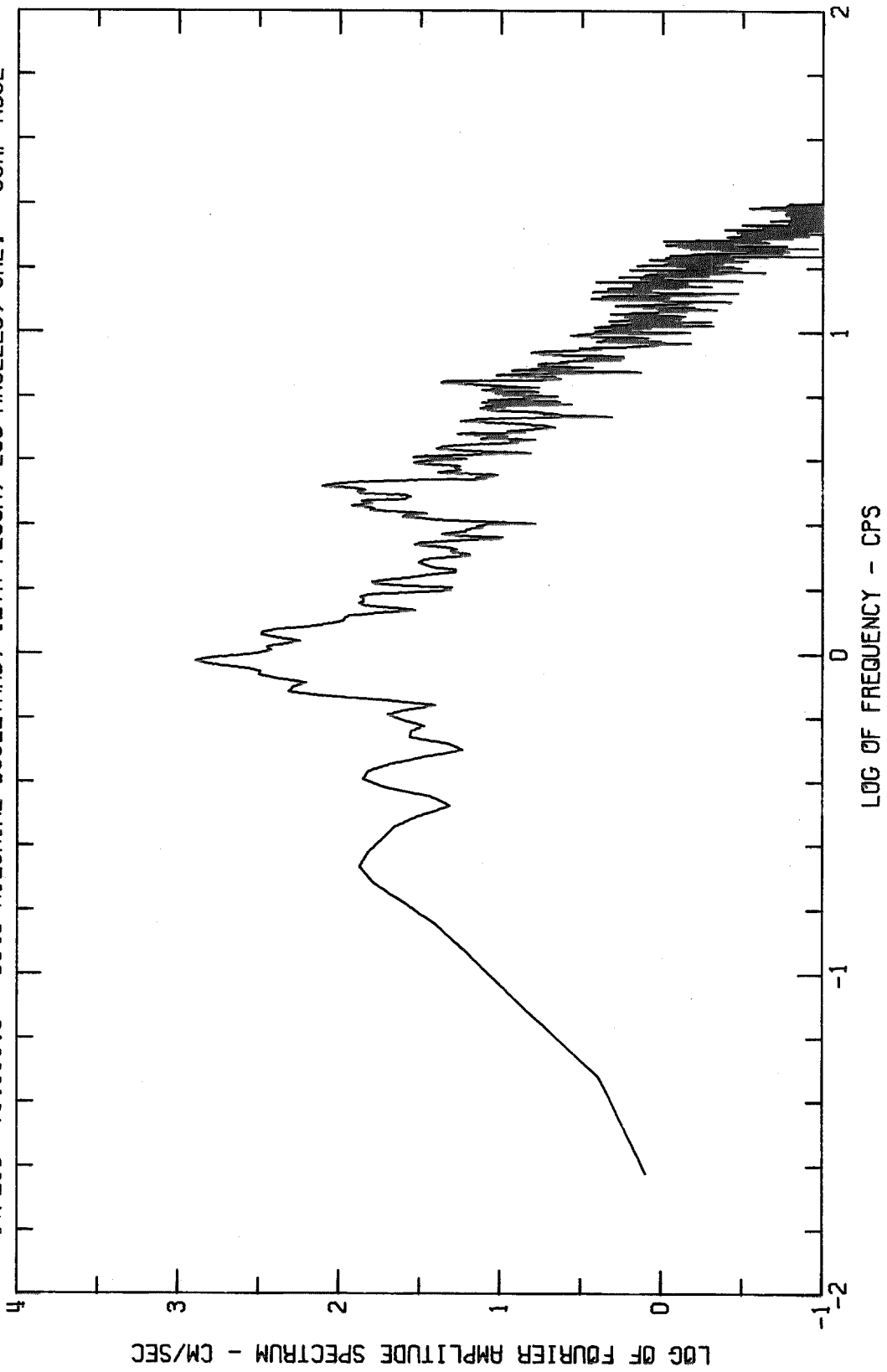
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FOURIER AMPLITUDE SPECTRUM OF ACCELERATION

SAN FERNANDO EARTHQUAKE FEB 9, 1971 - 0600 PST

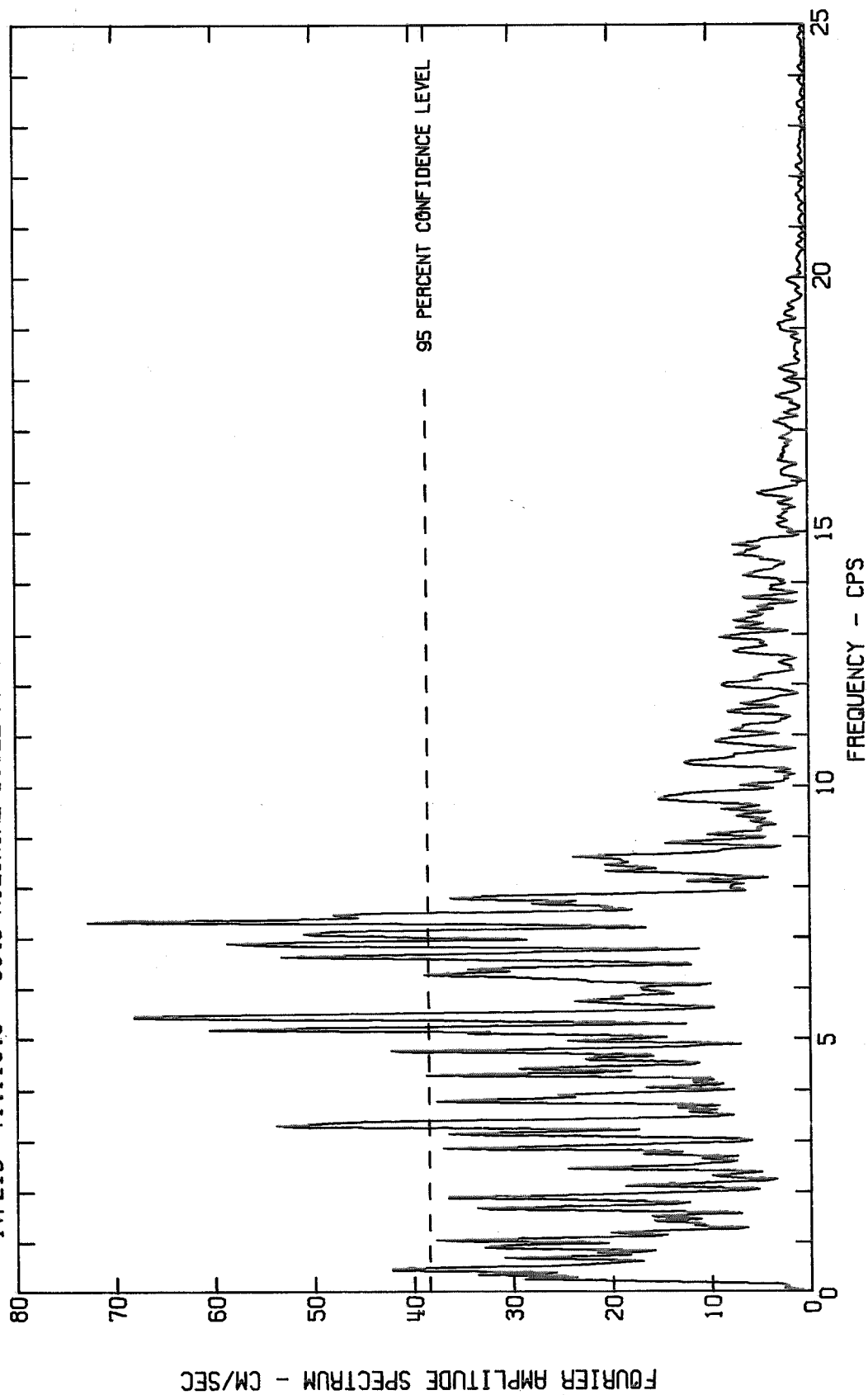
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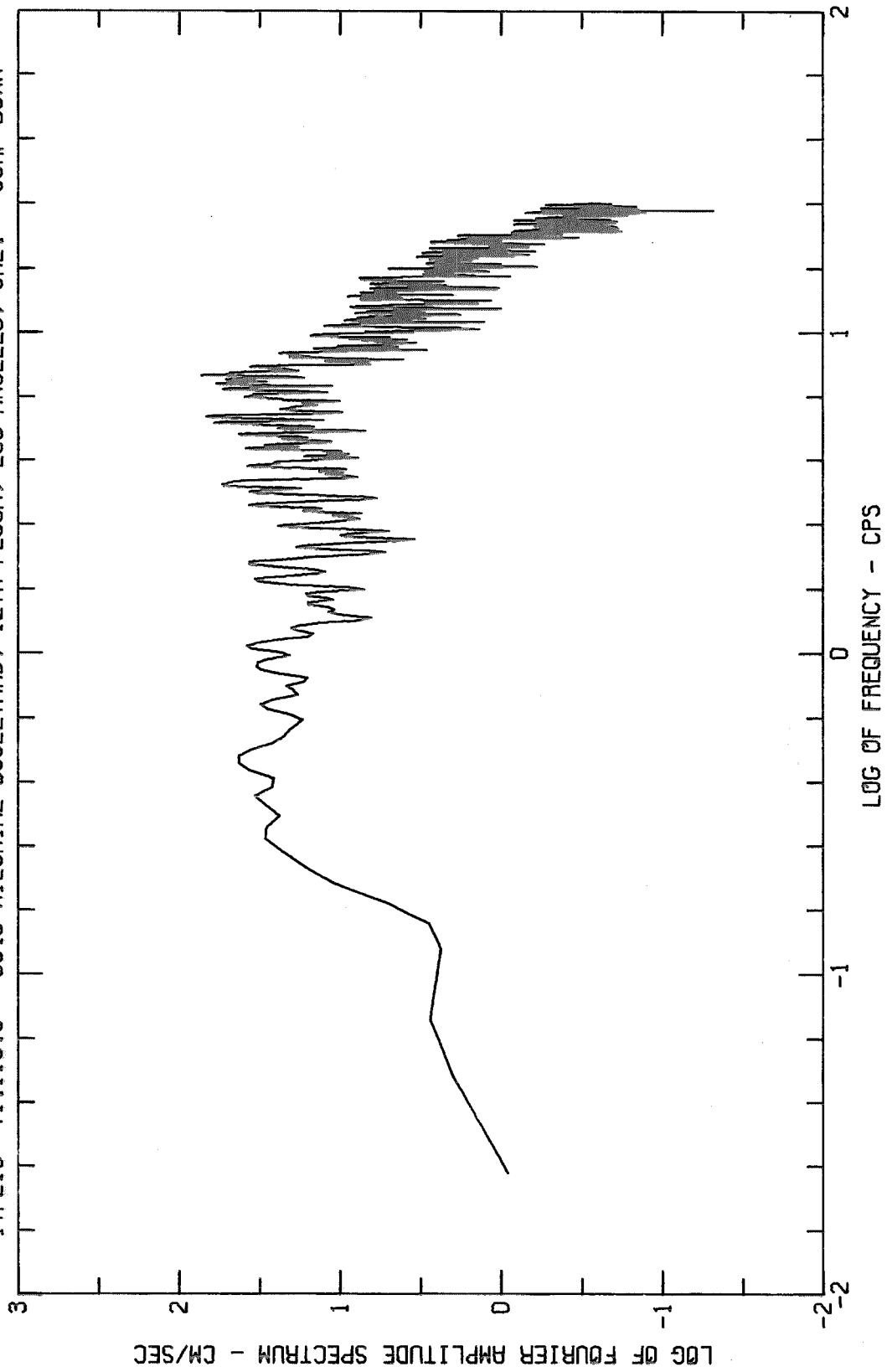
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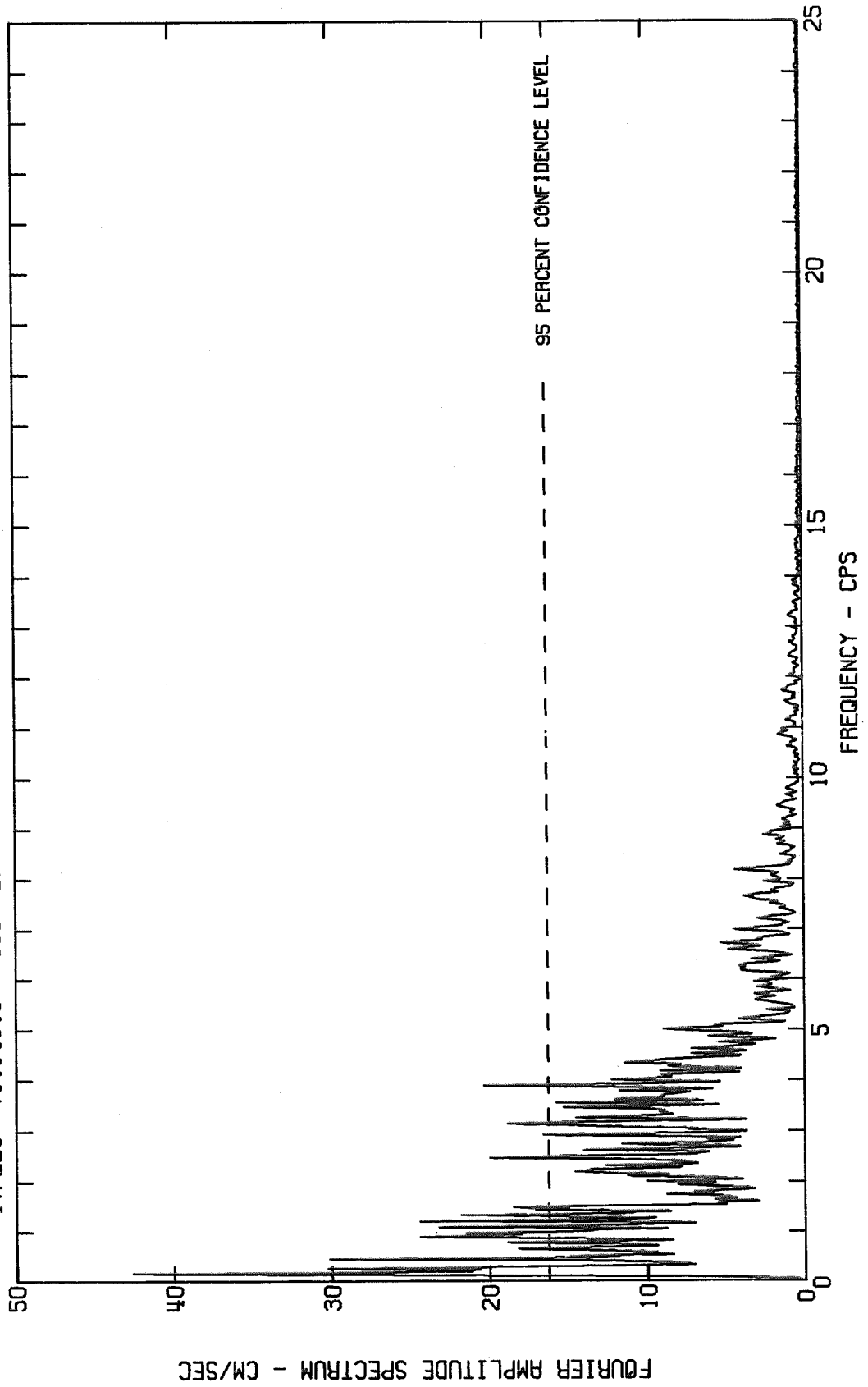
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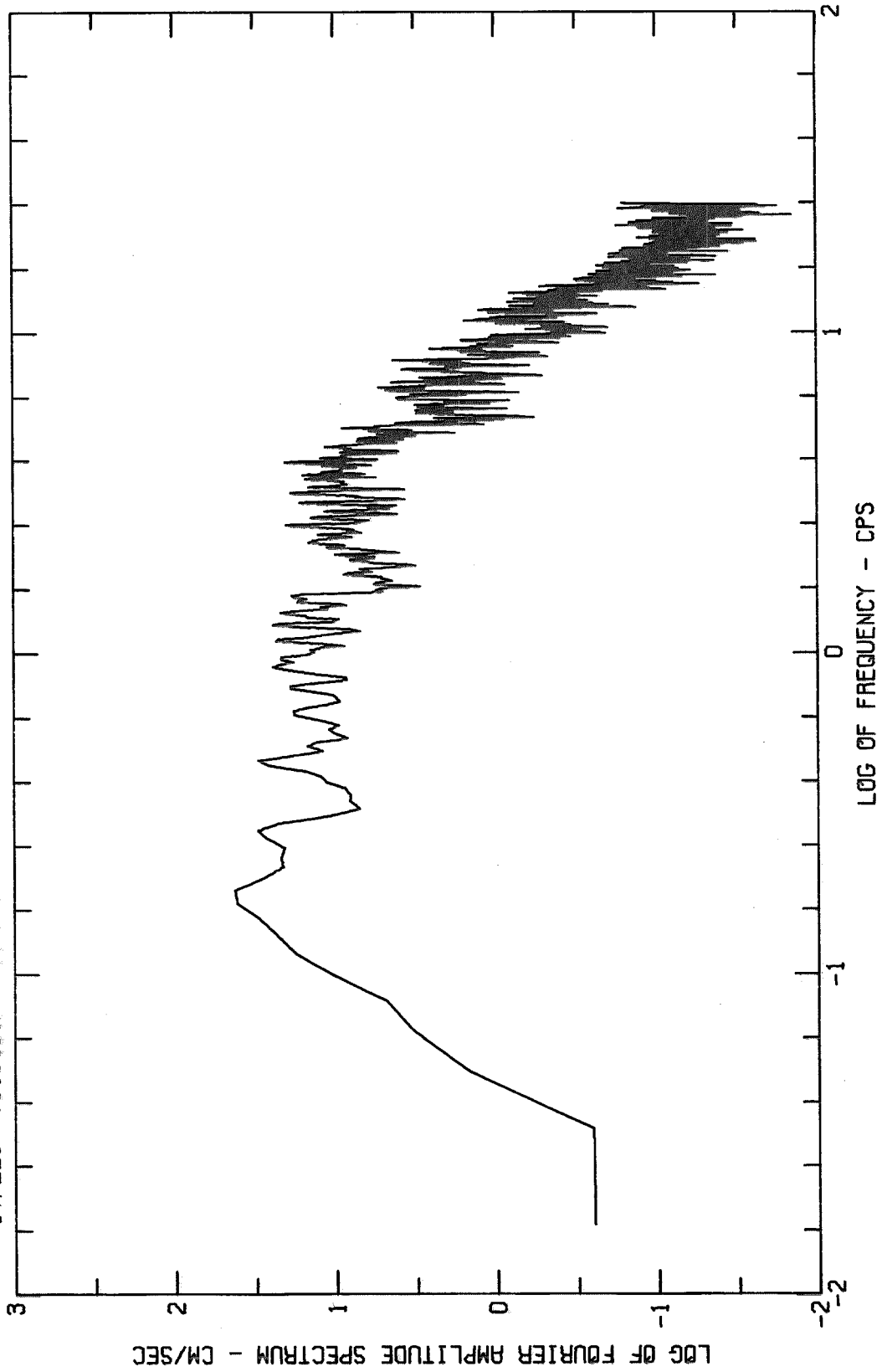
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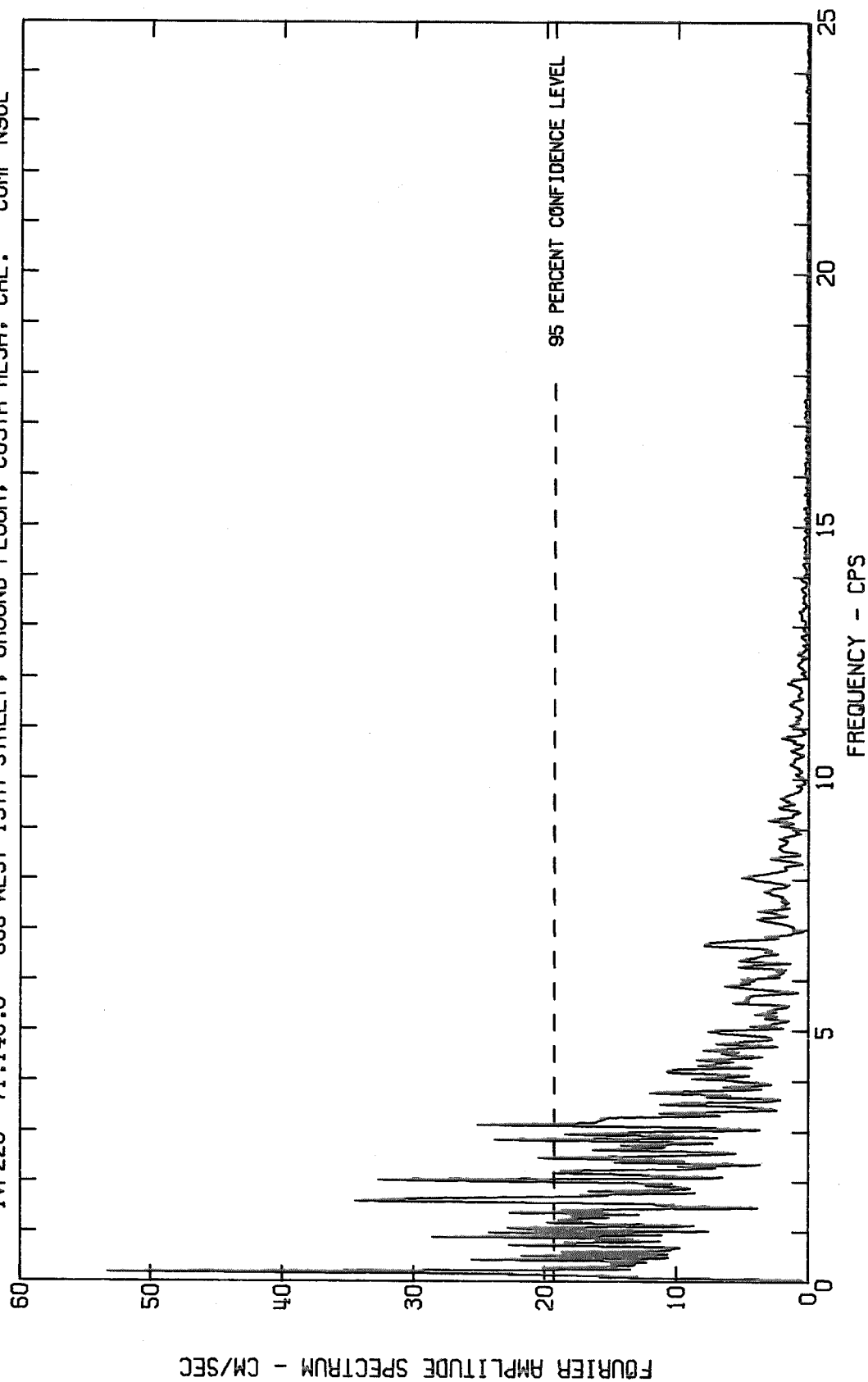
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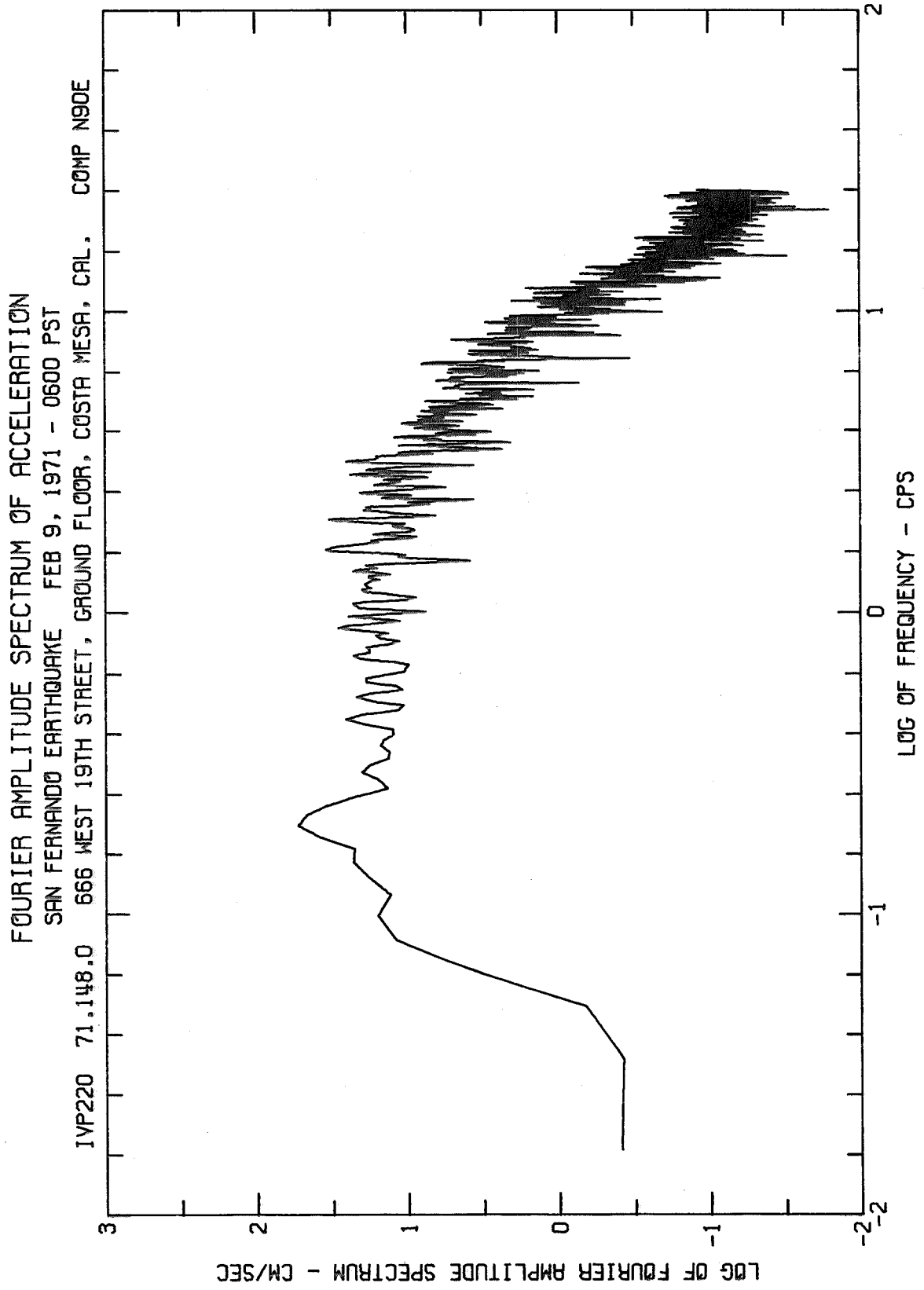


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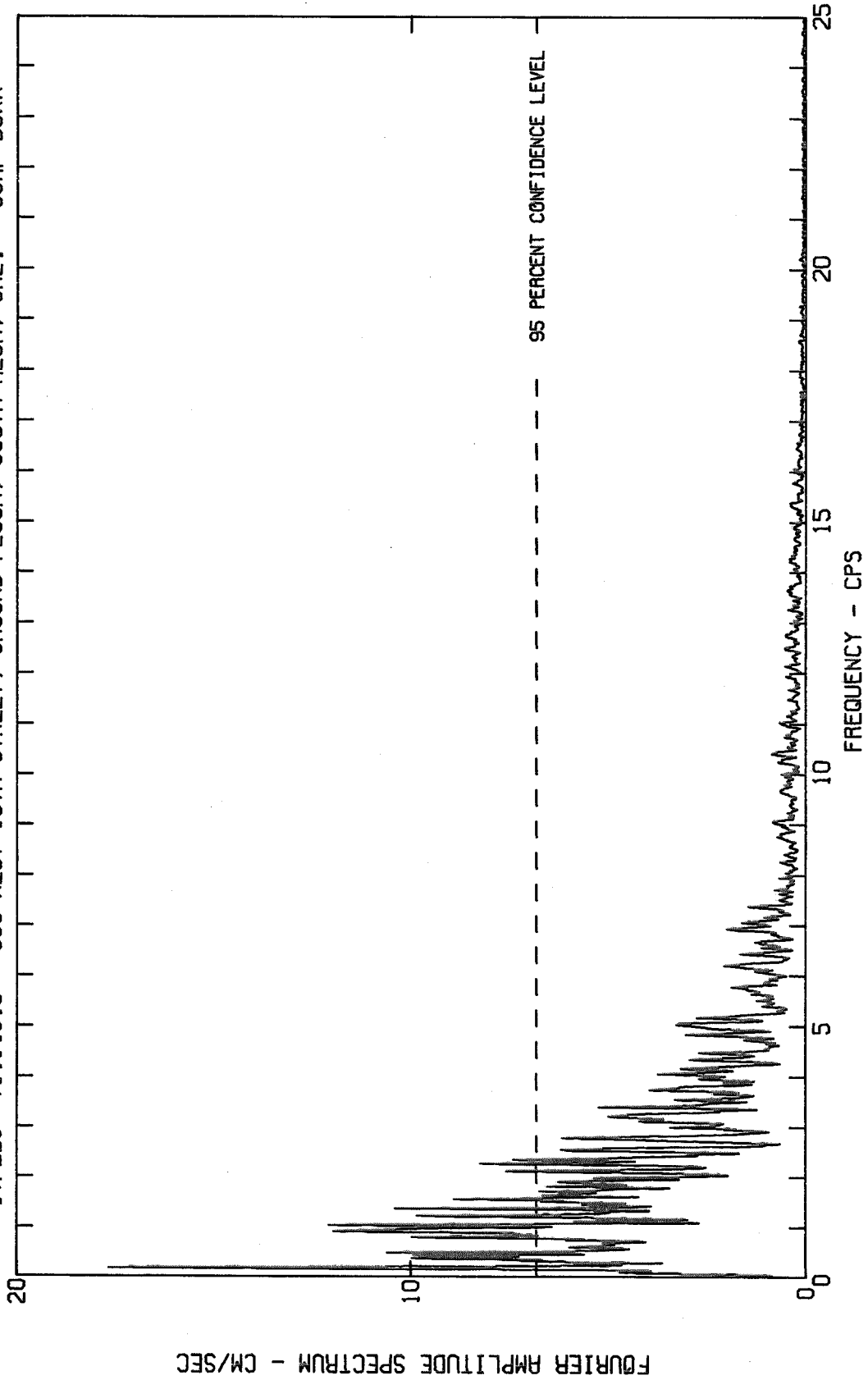




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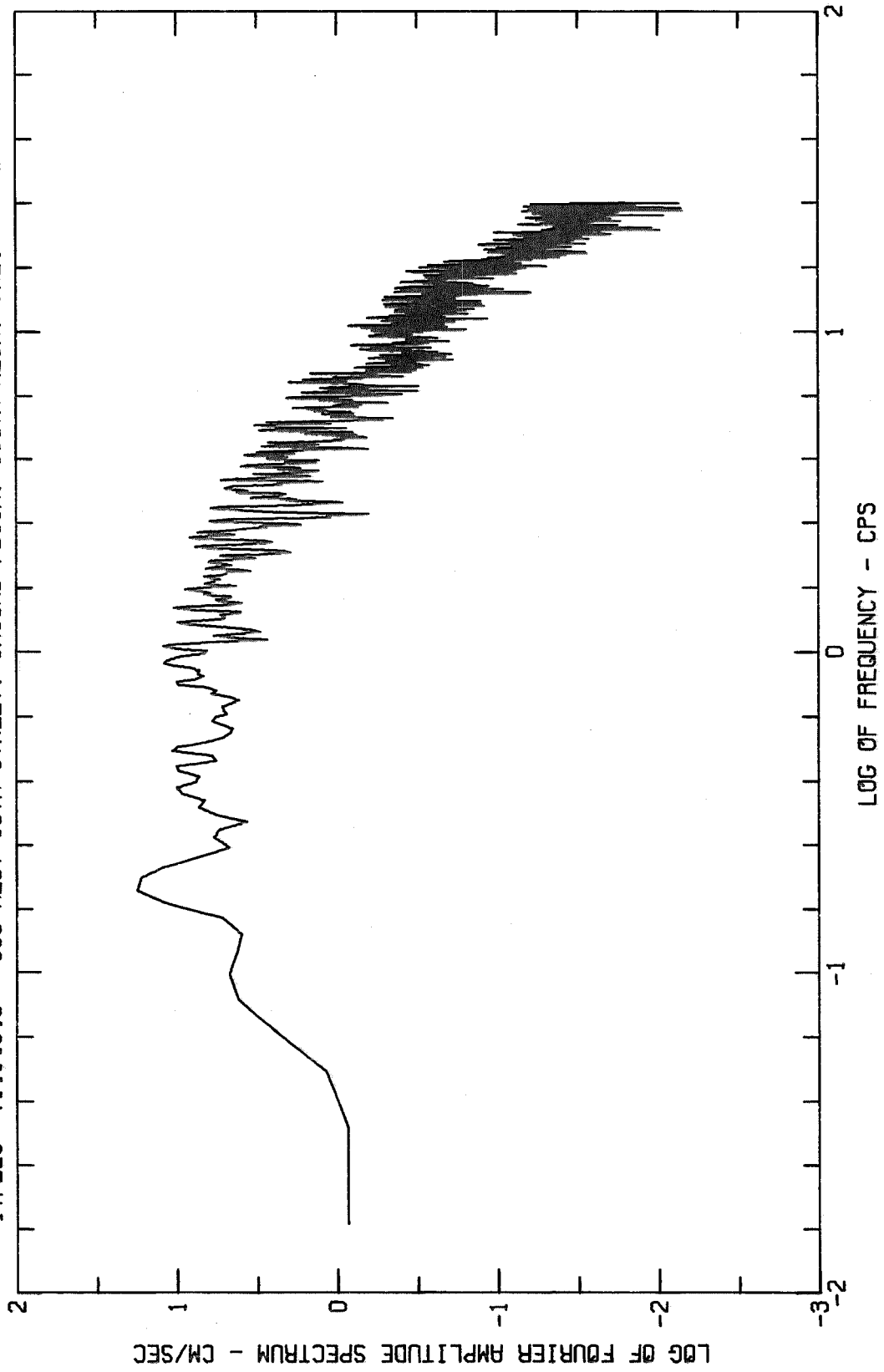
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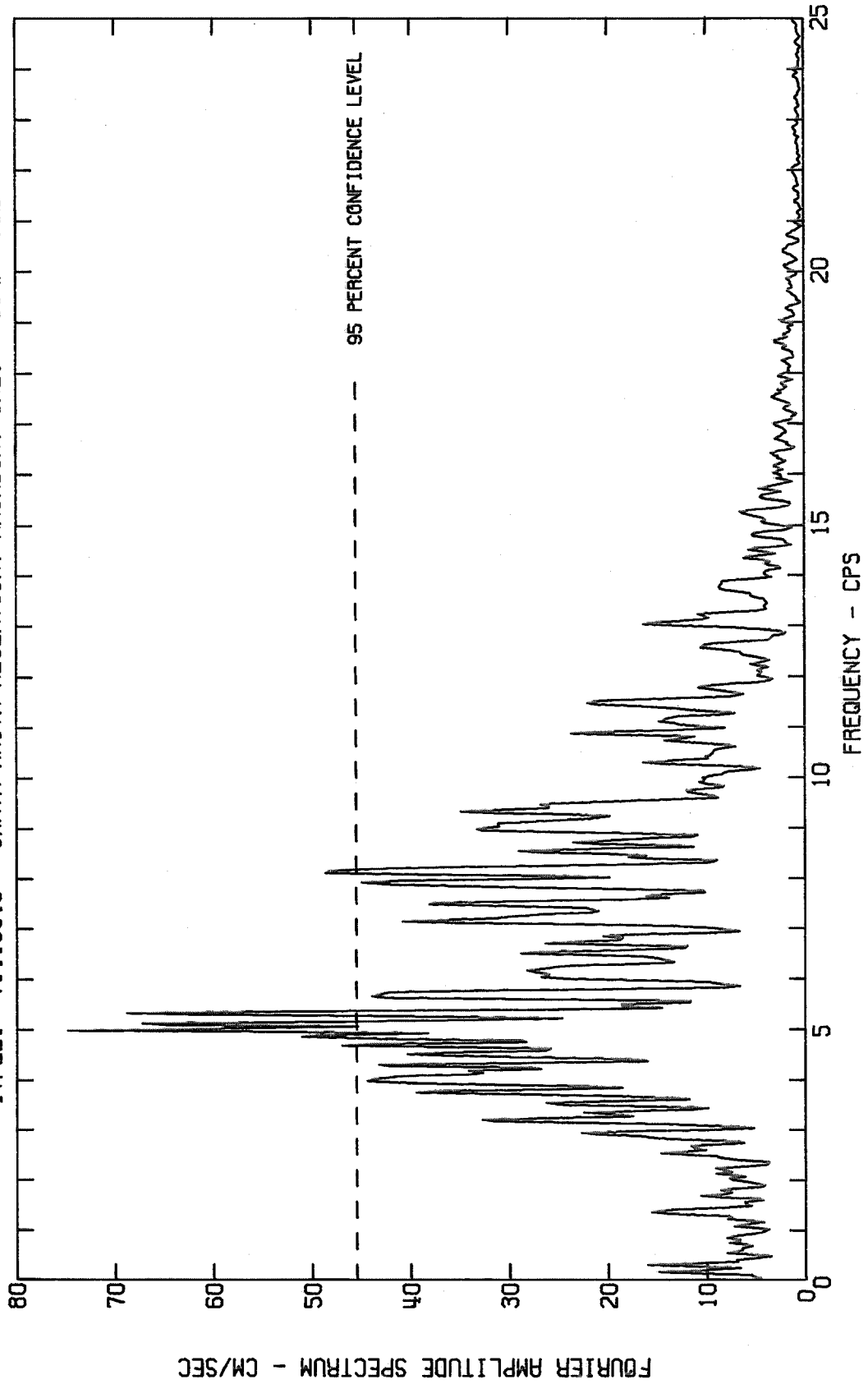
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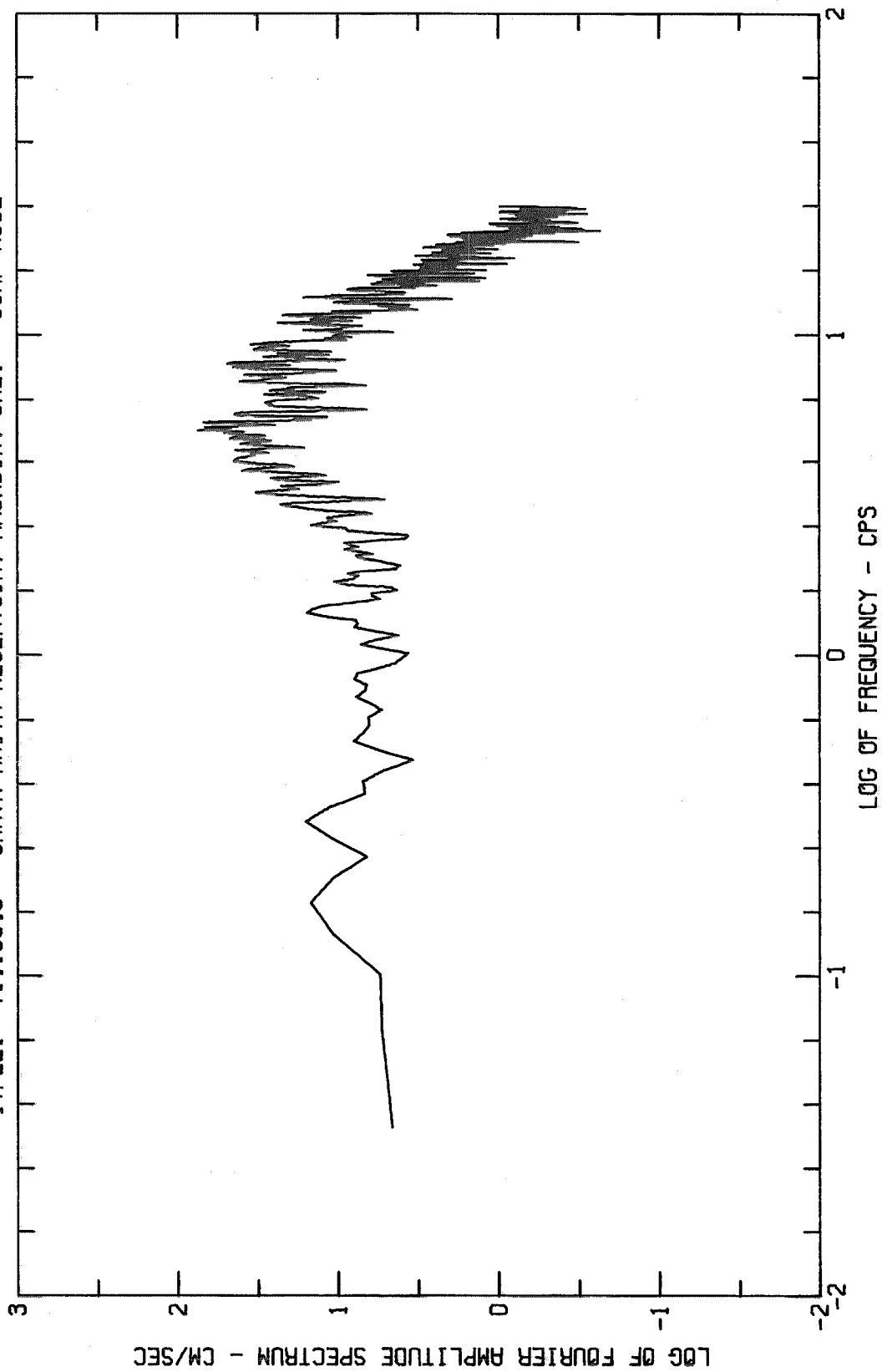
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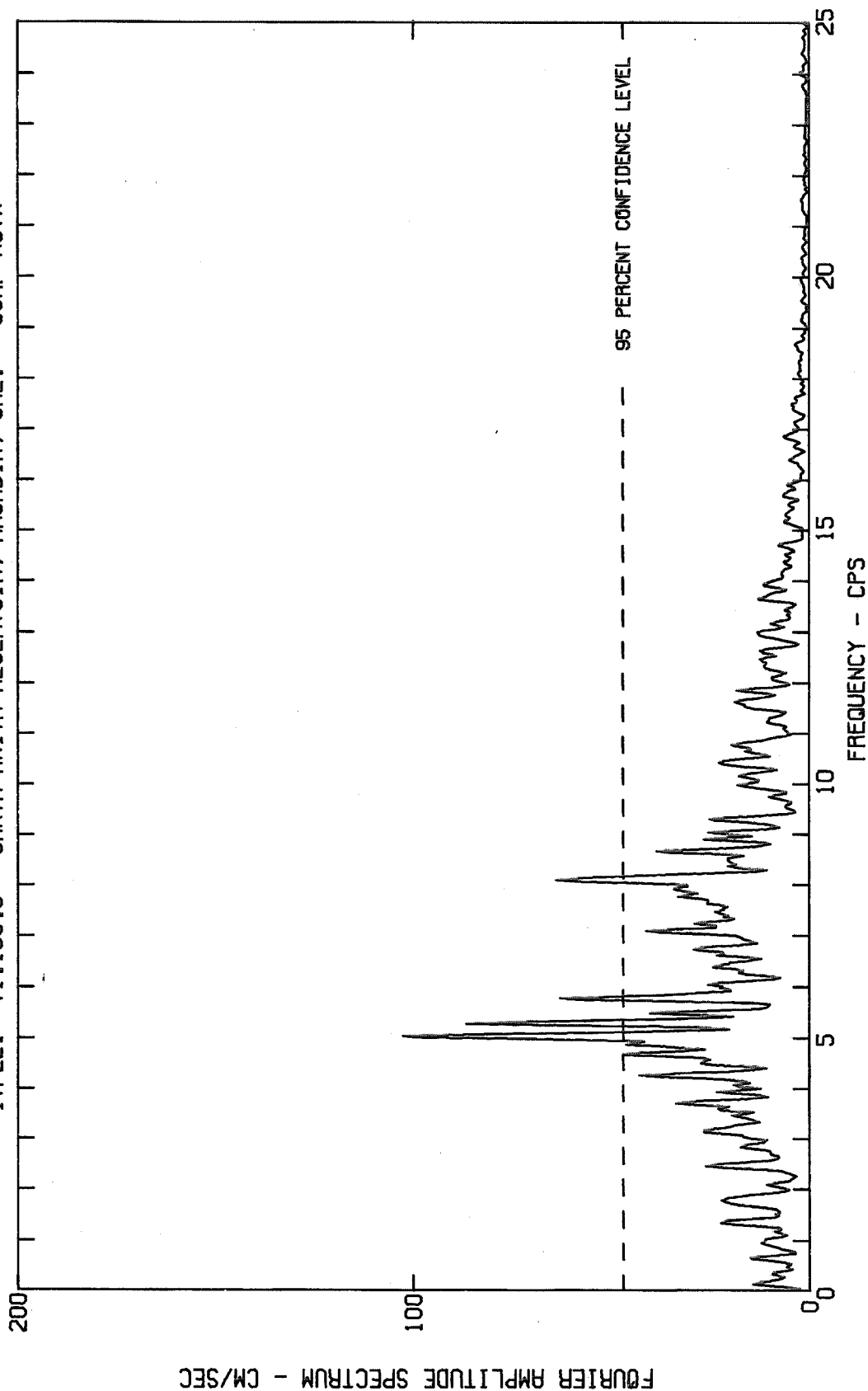
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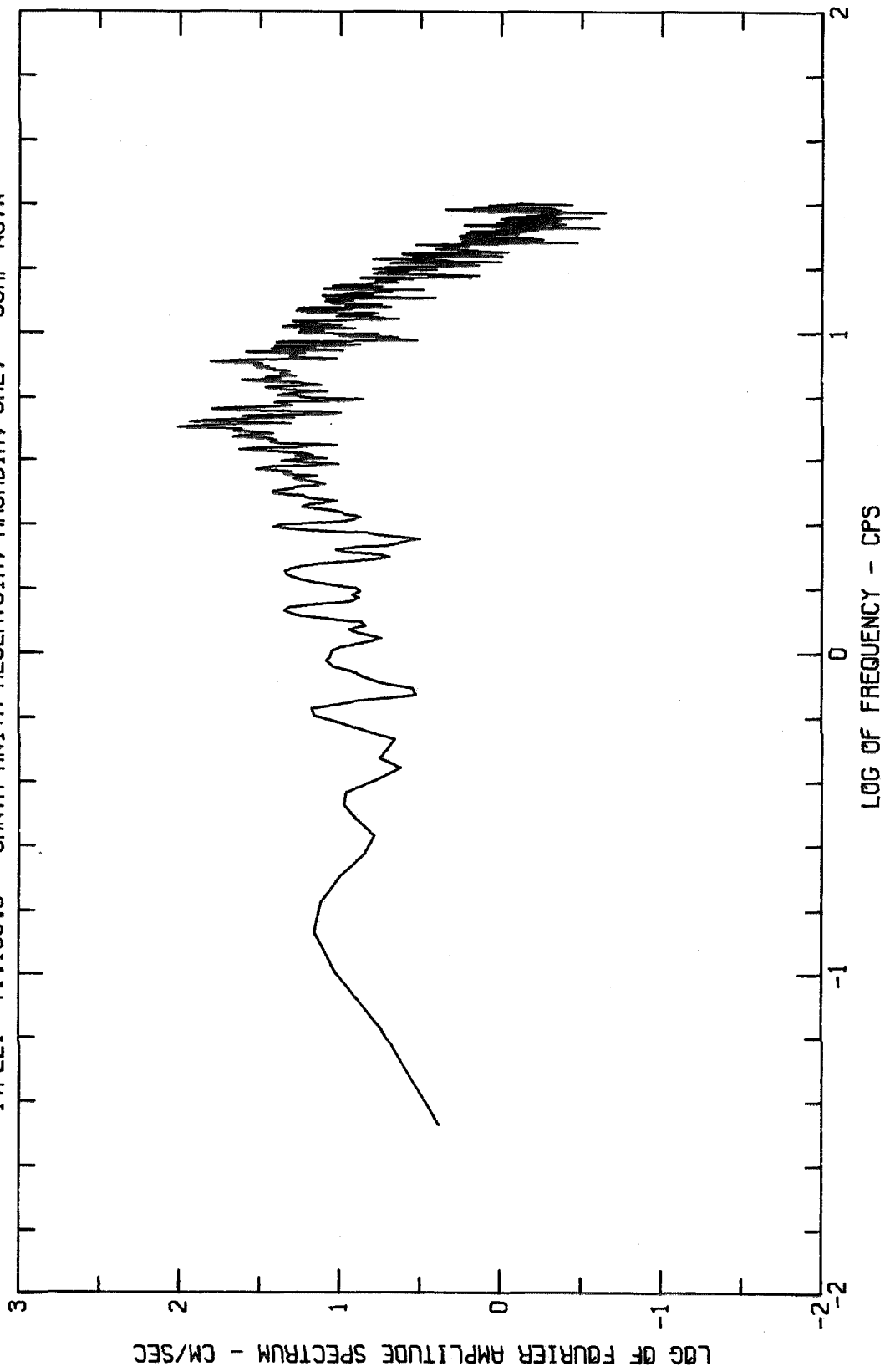
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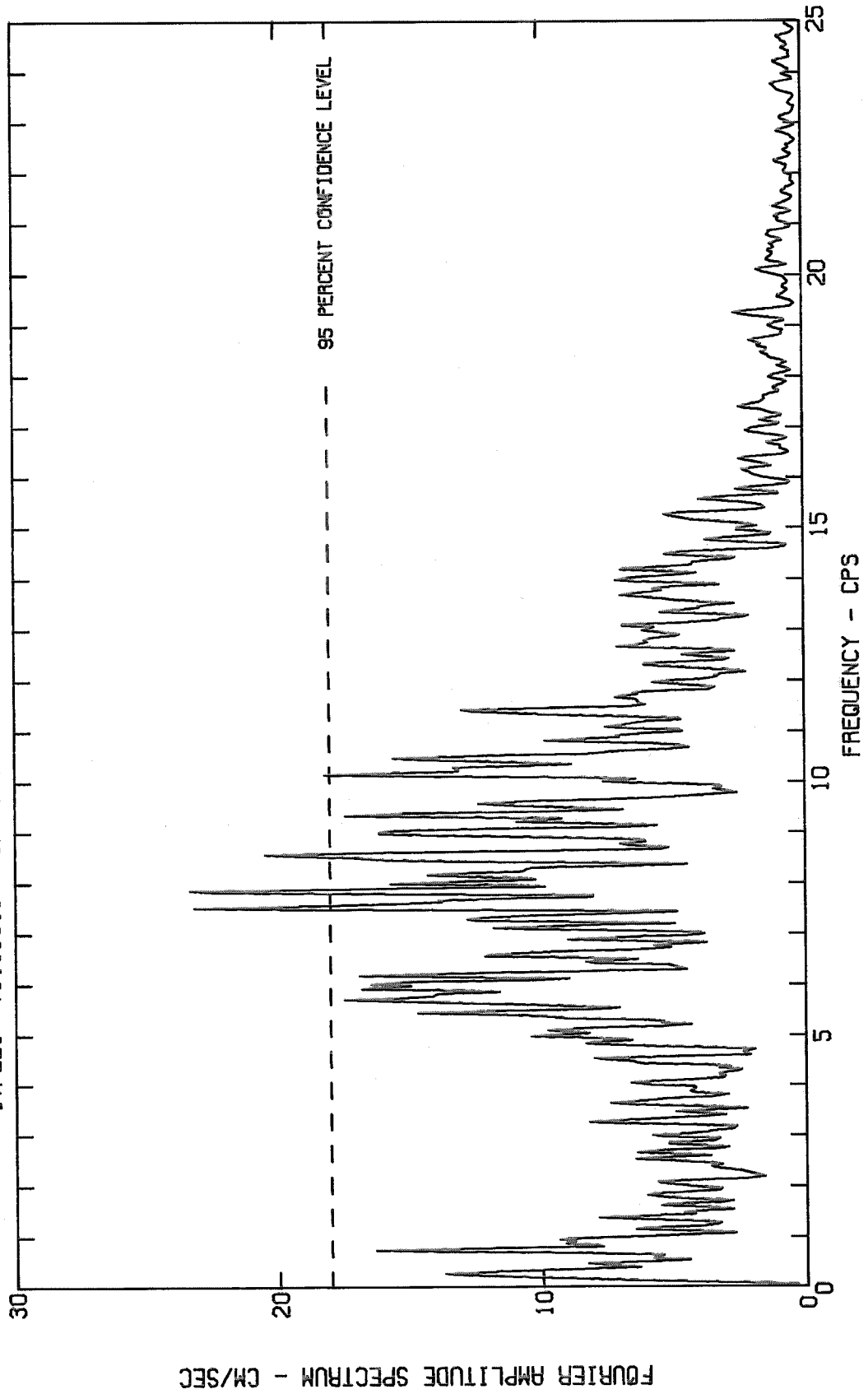
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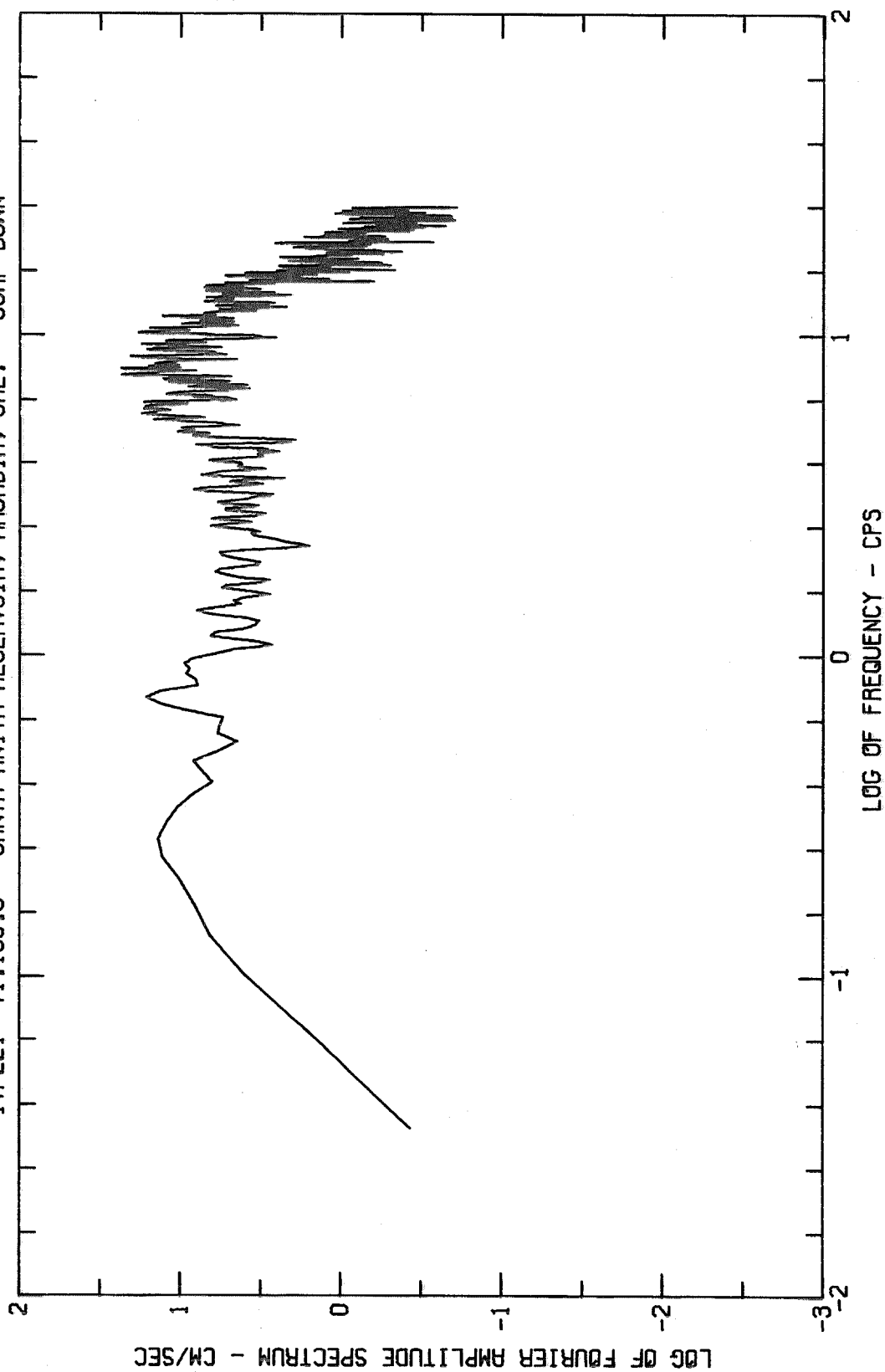
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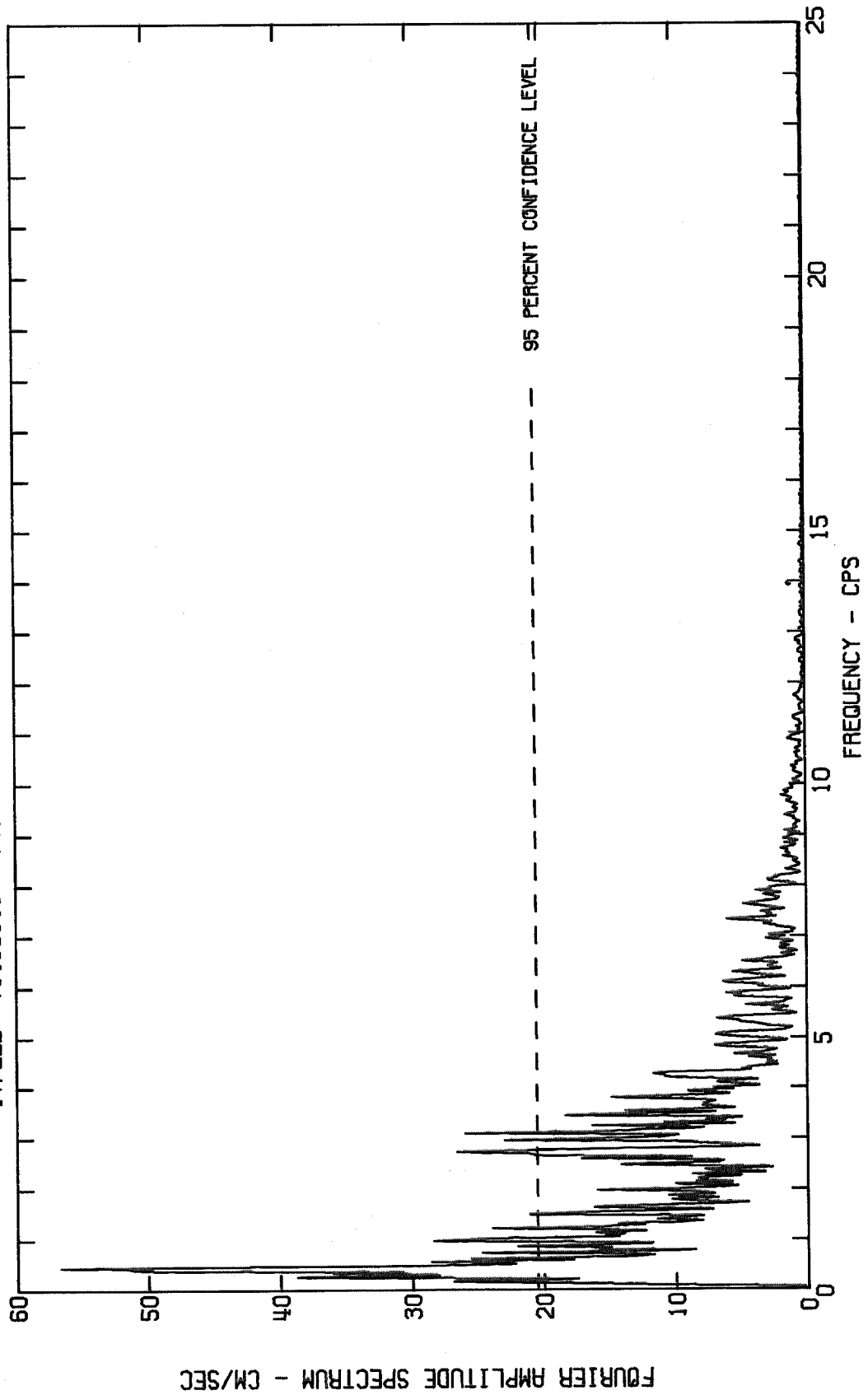
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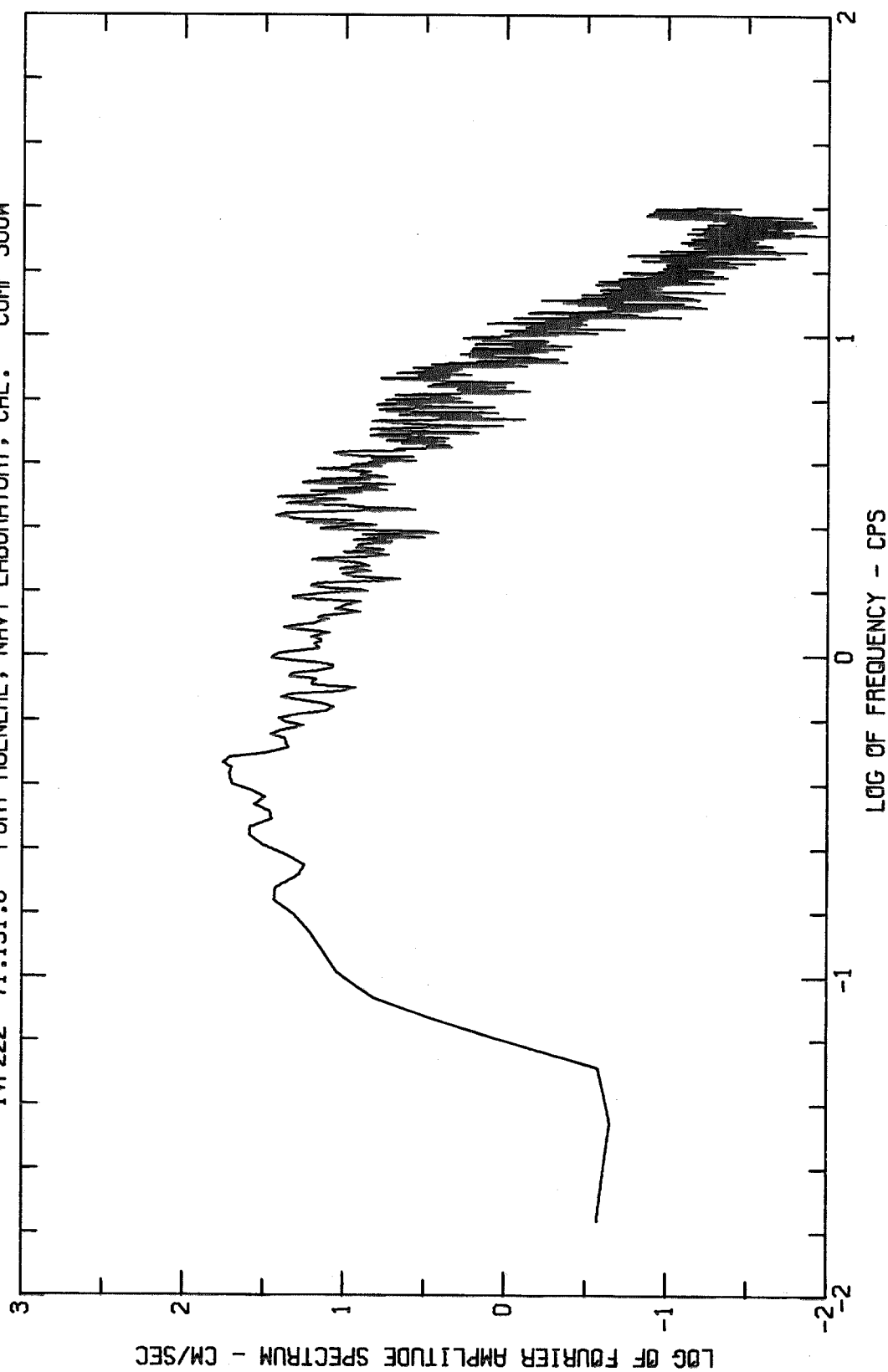
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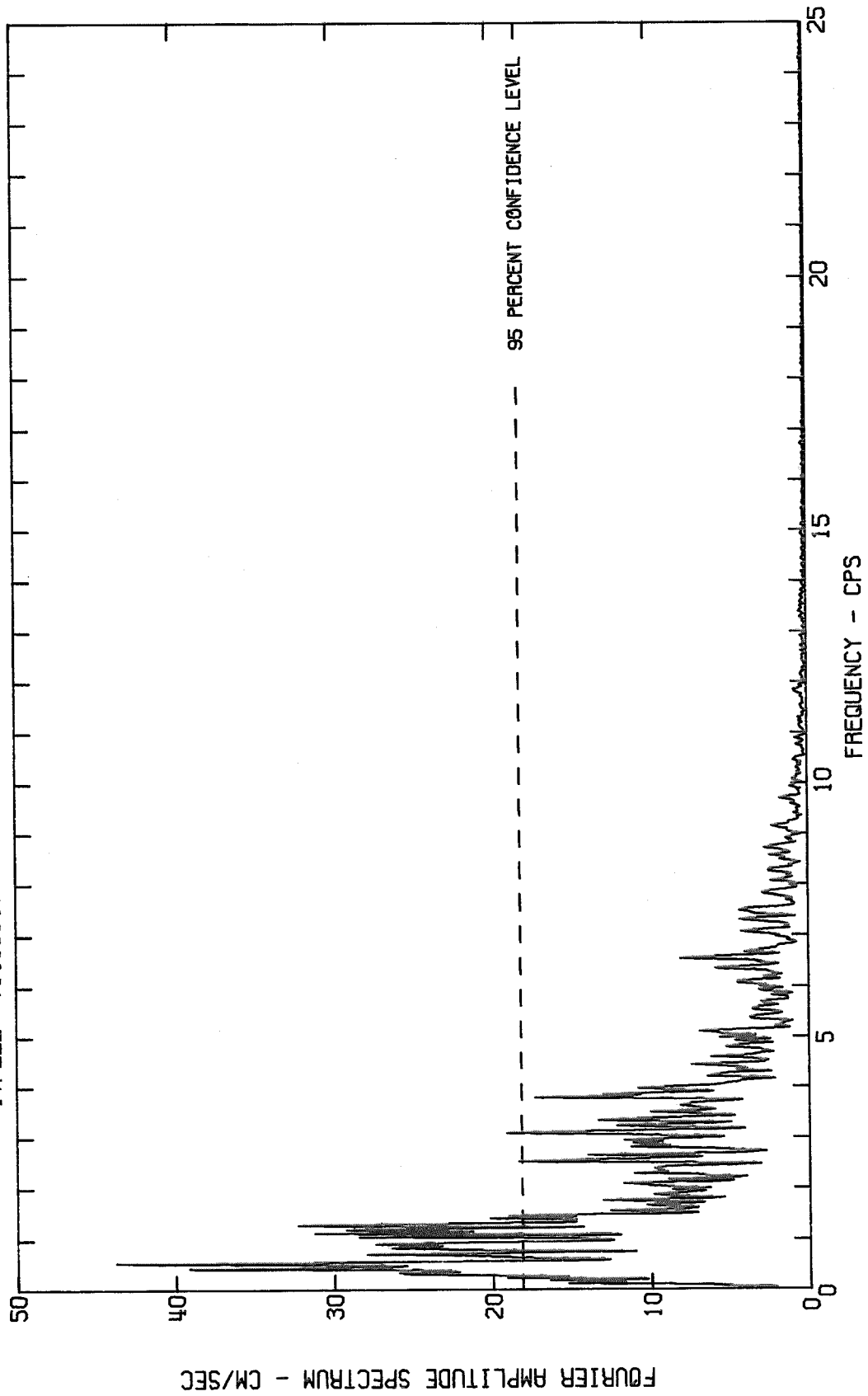
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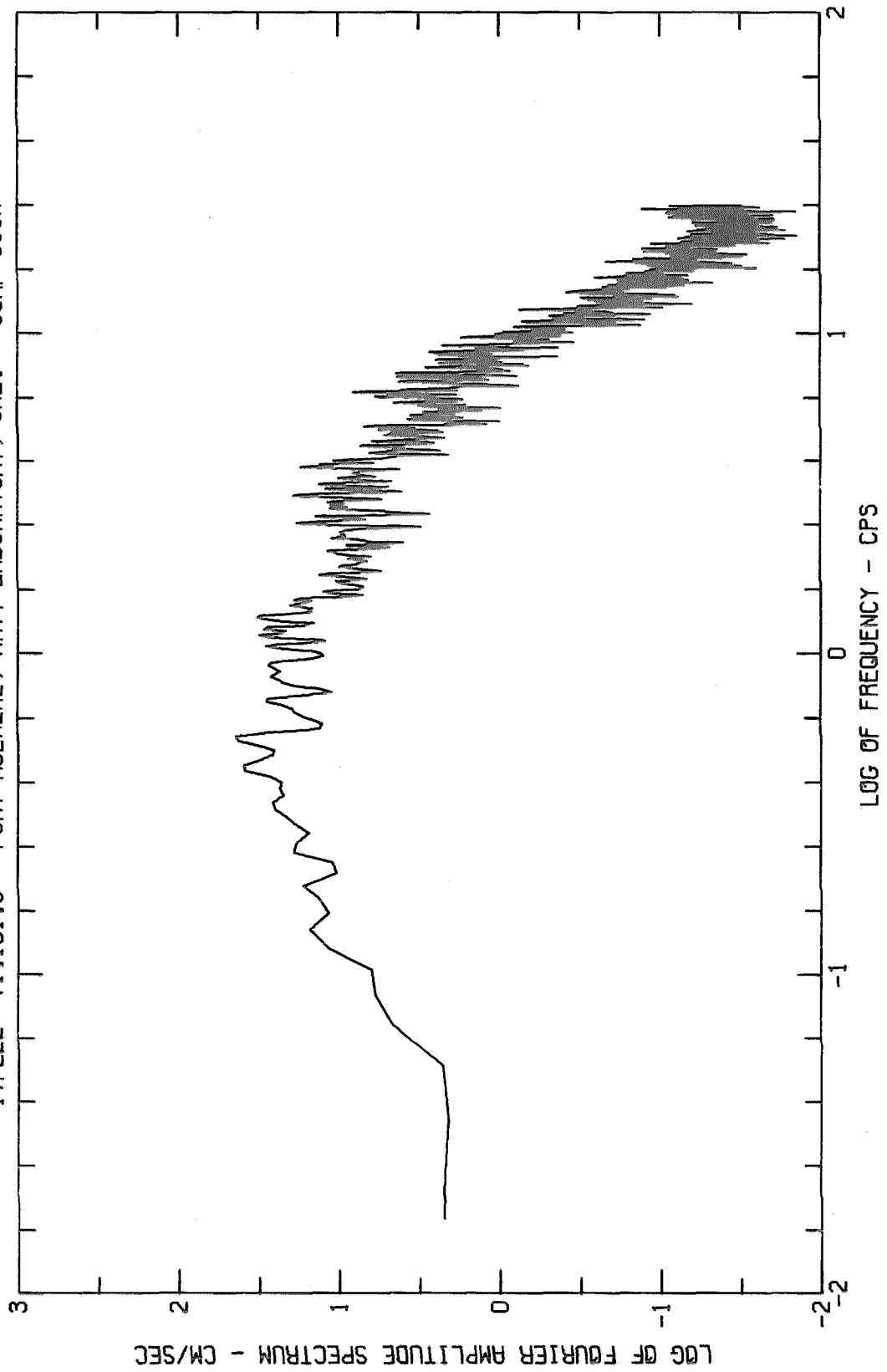
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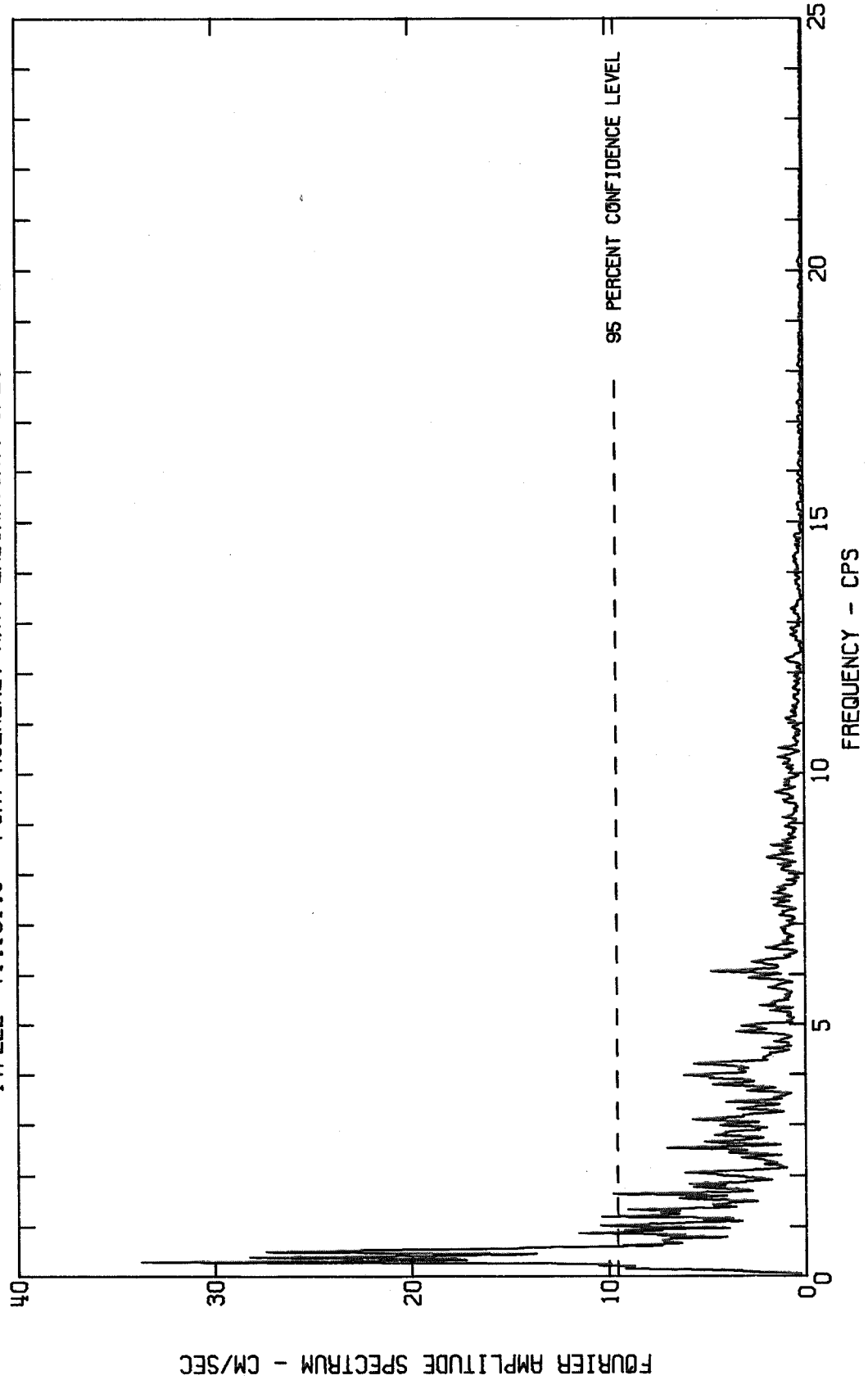
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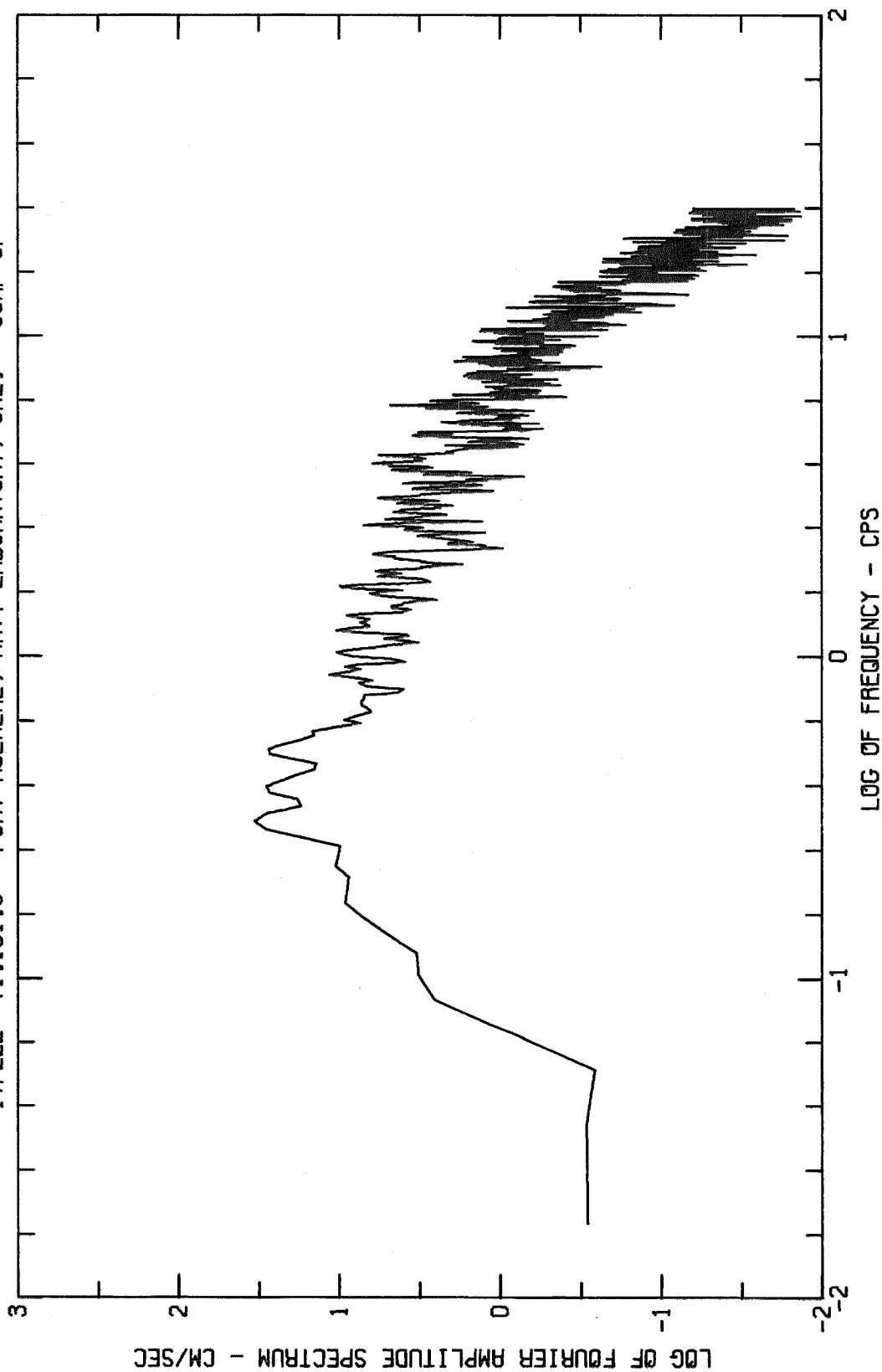
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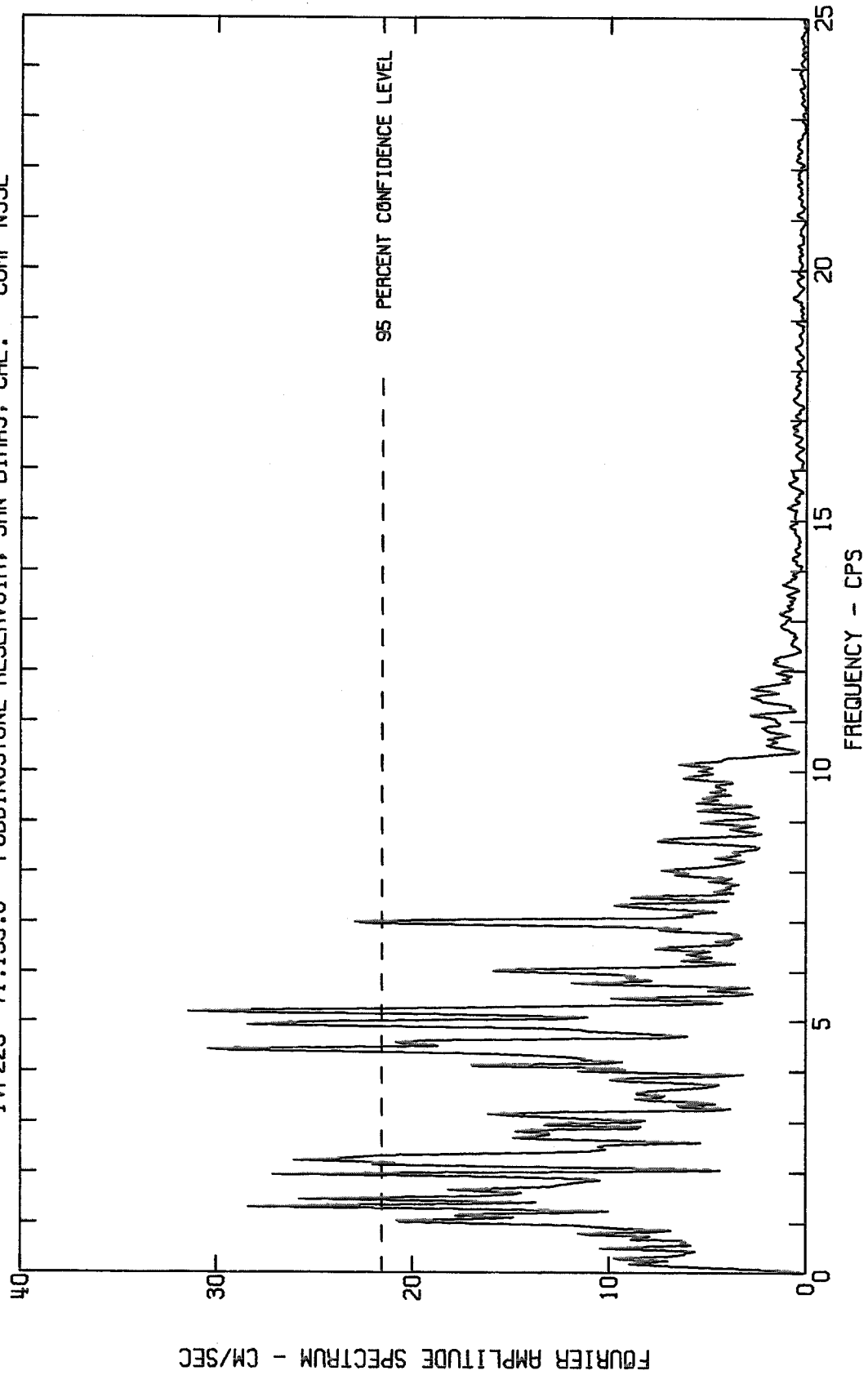
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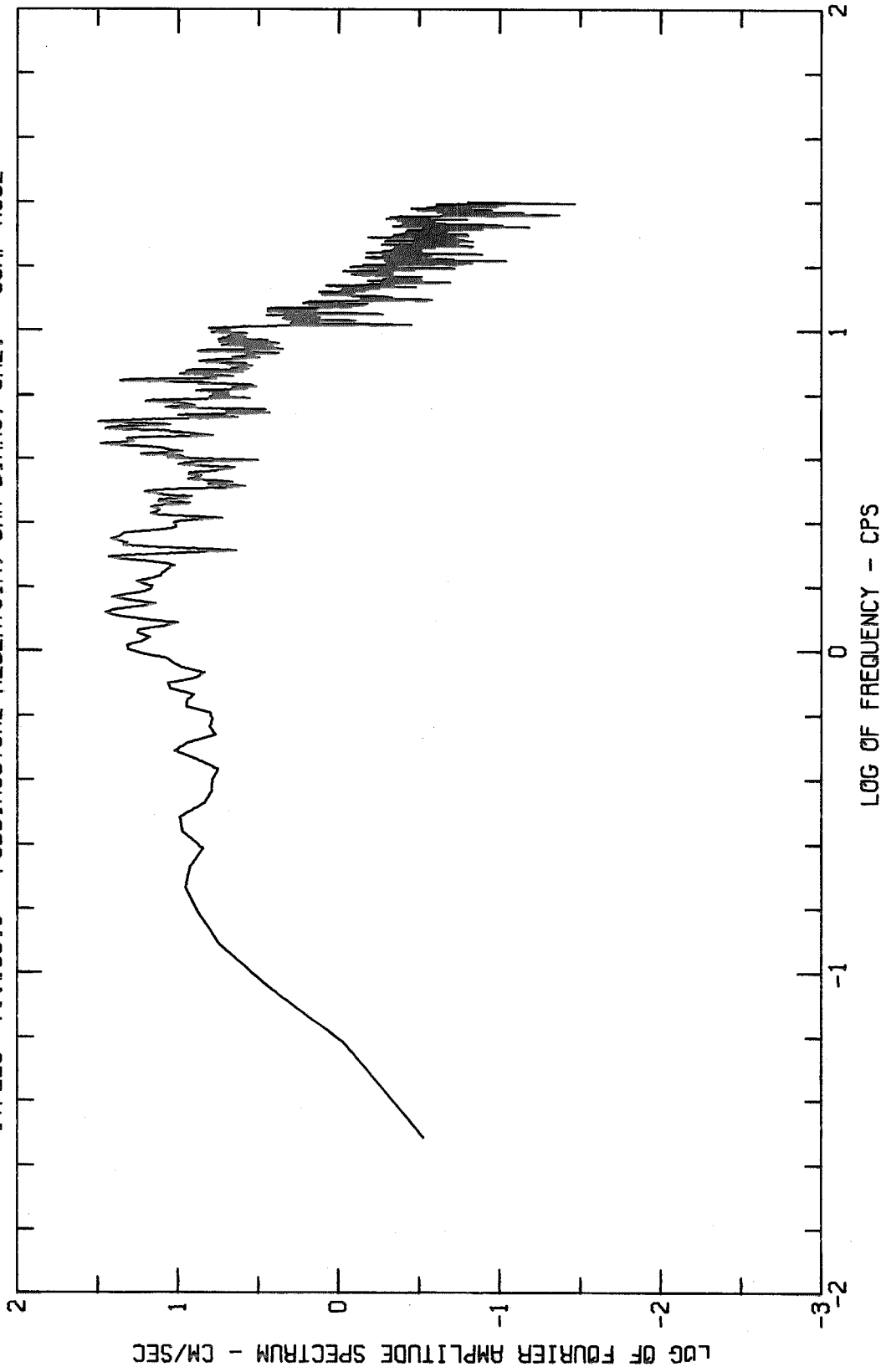
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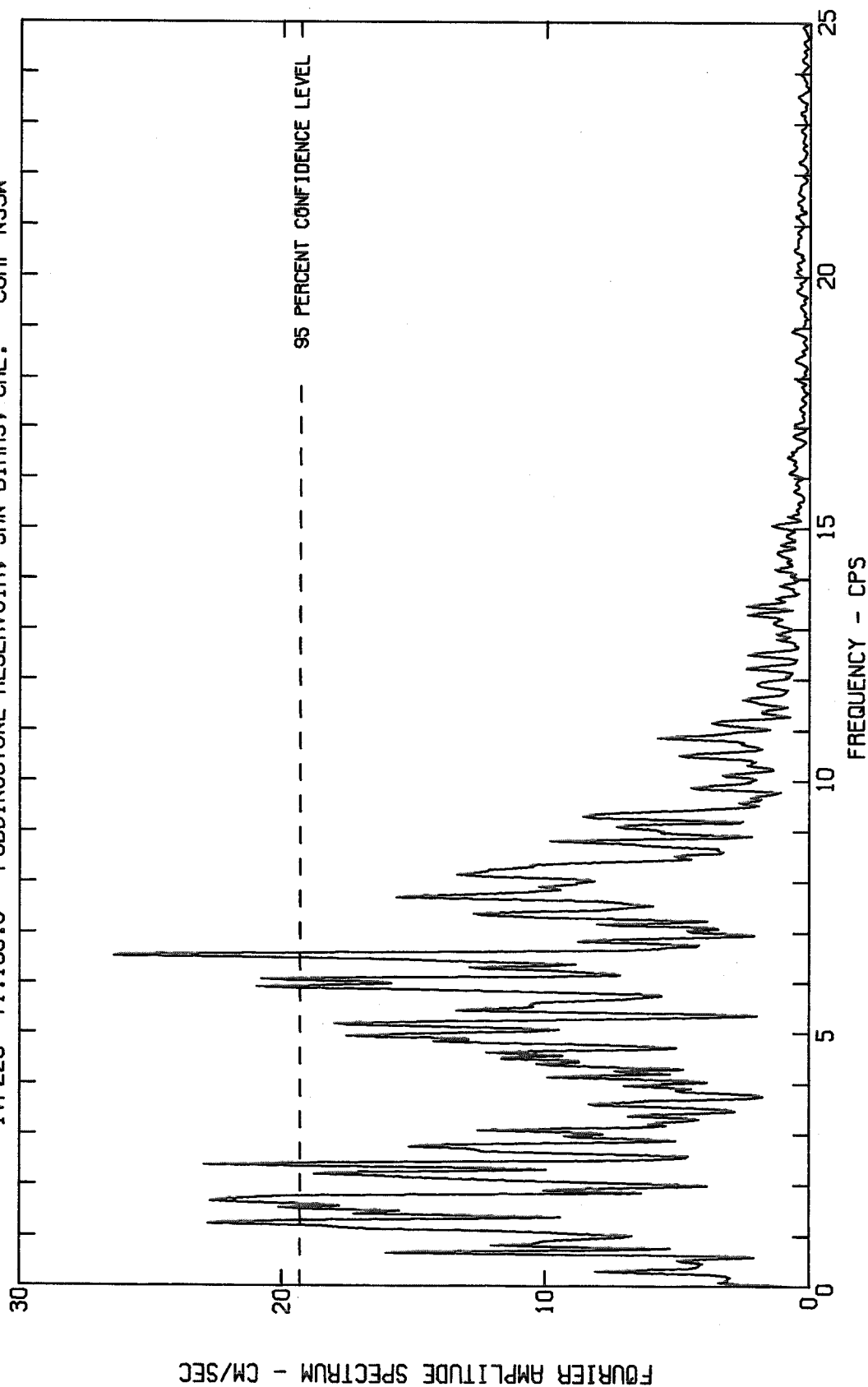
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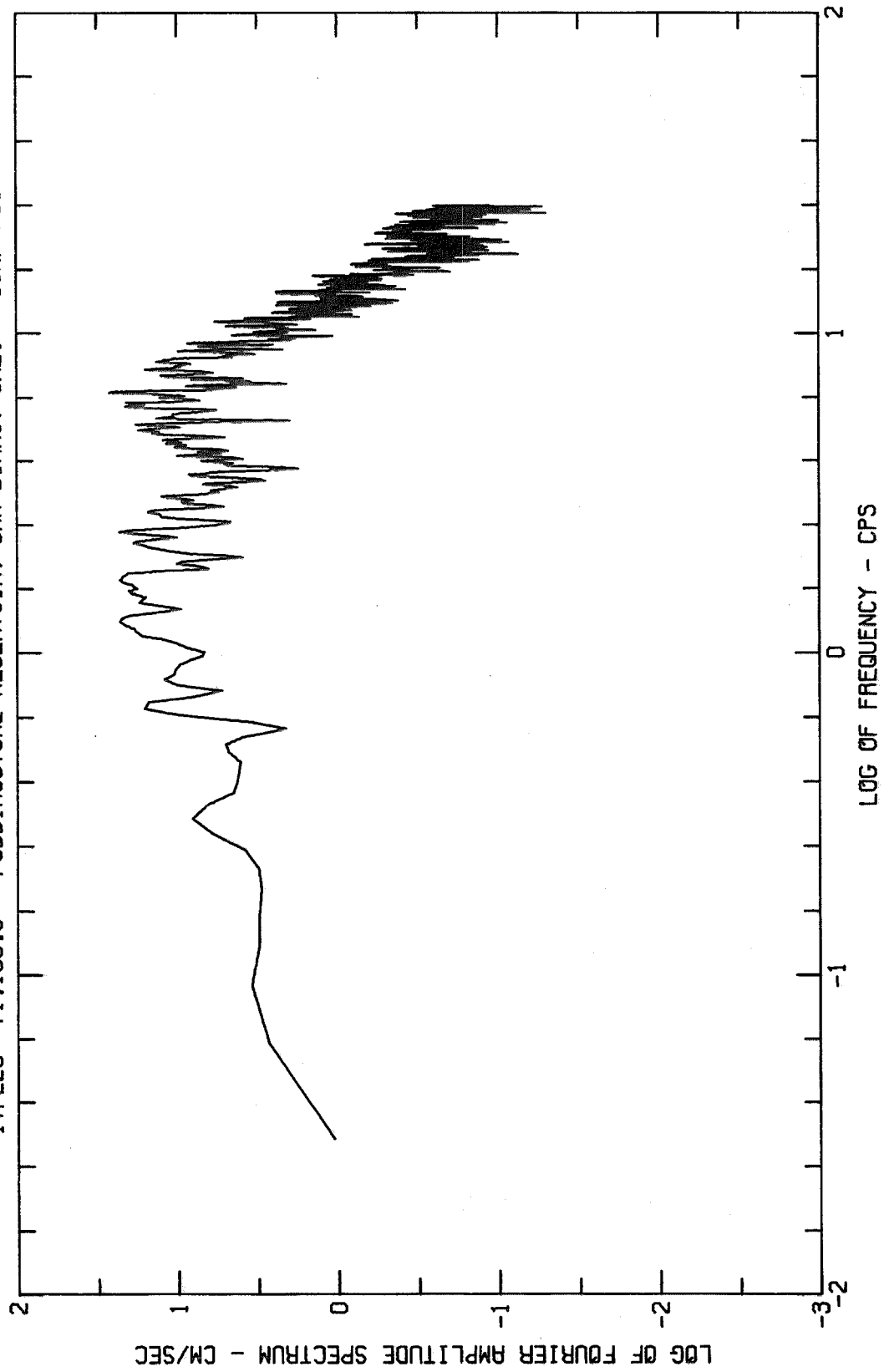
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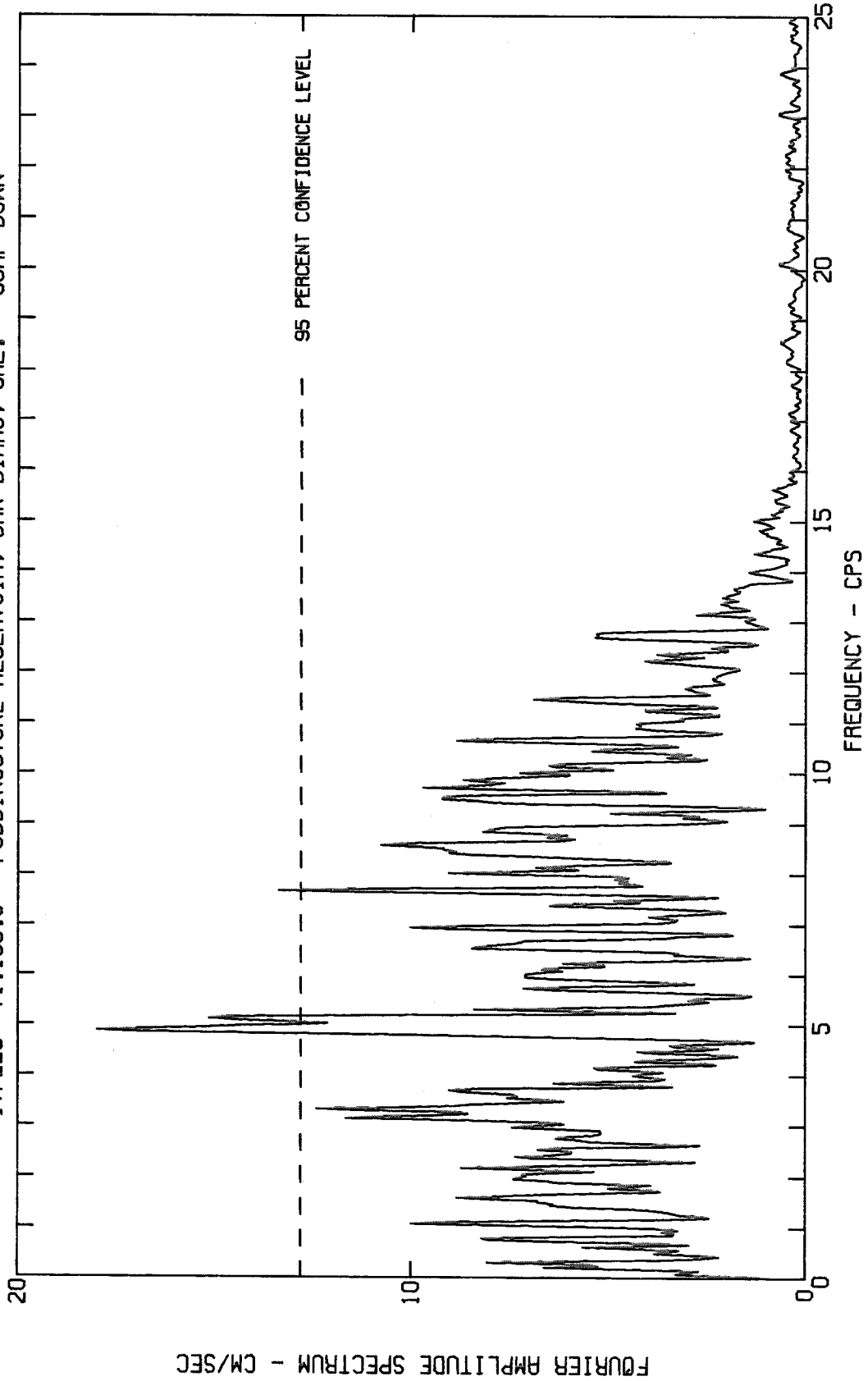
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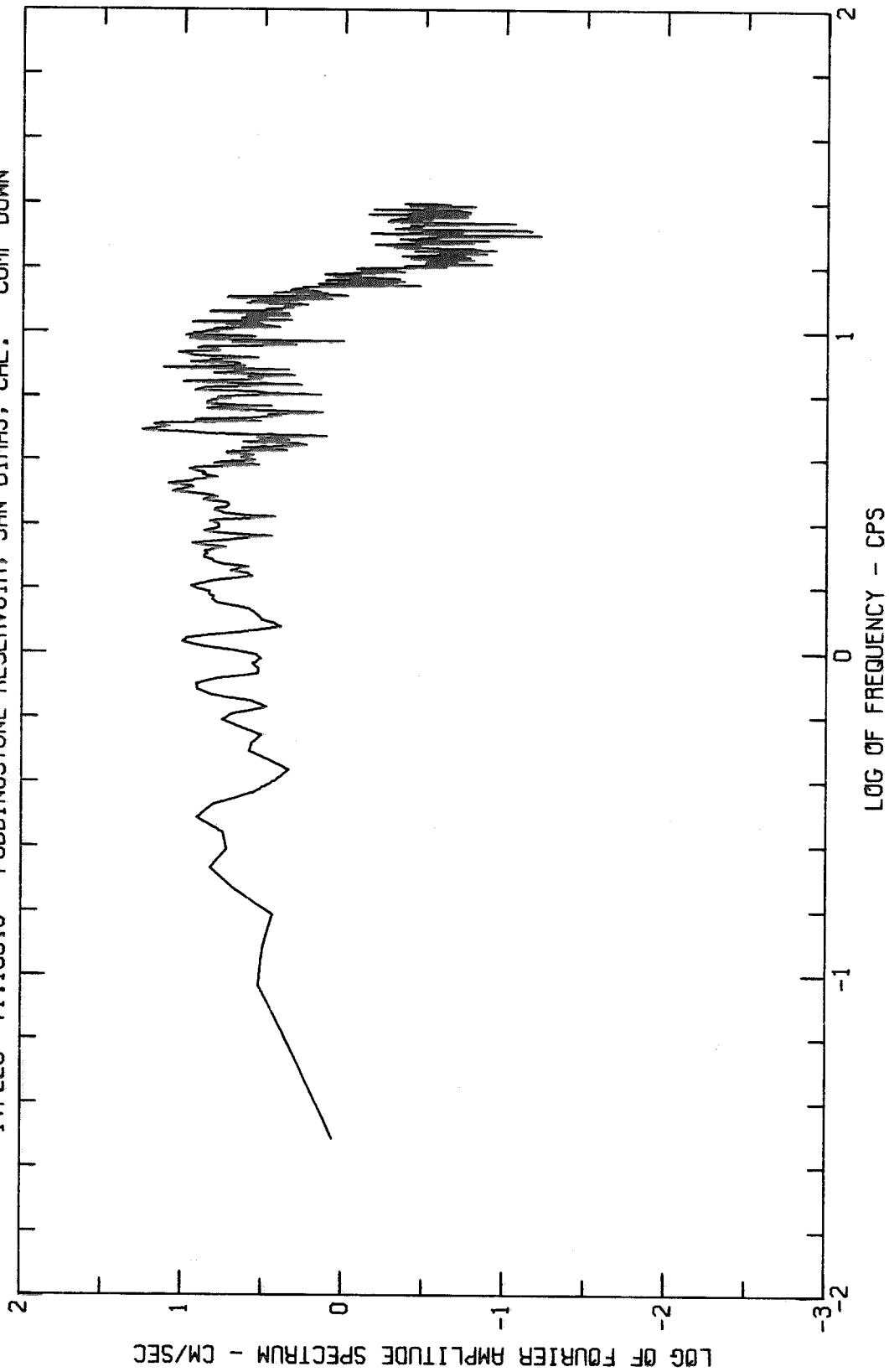
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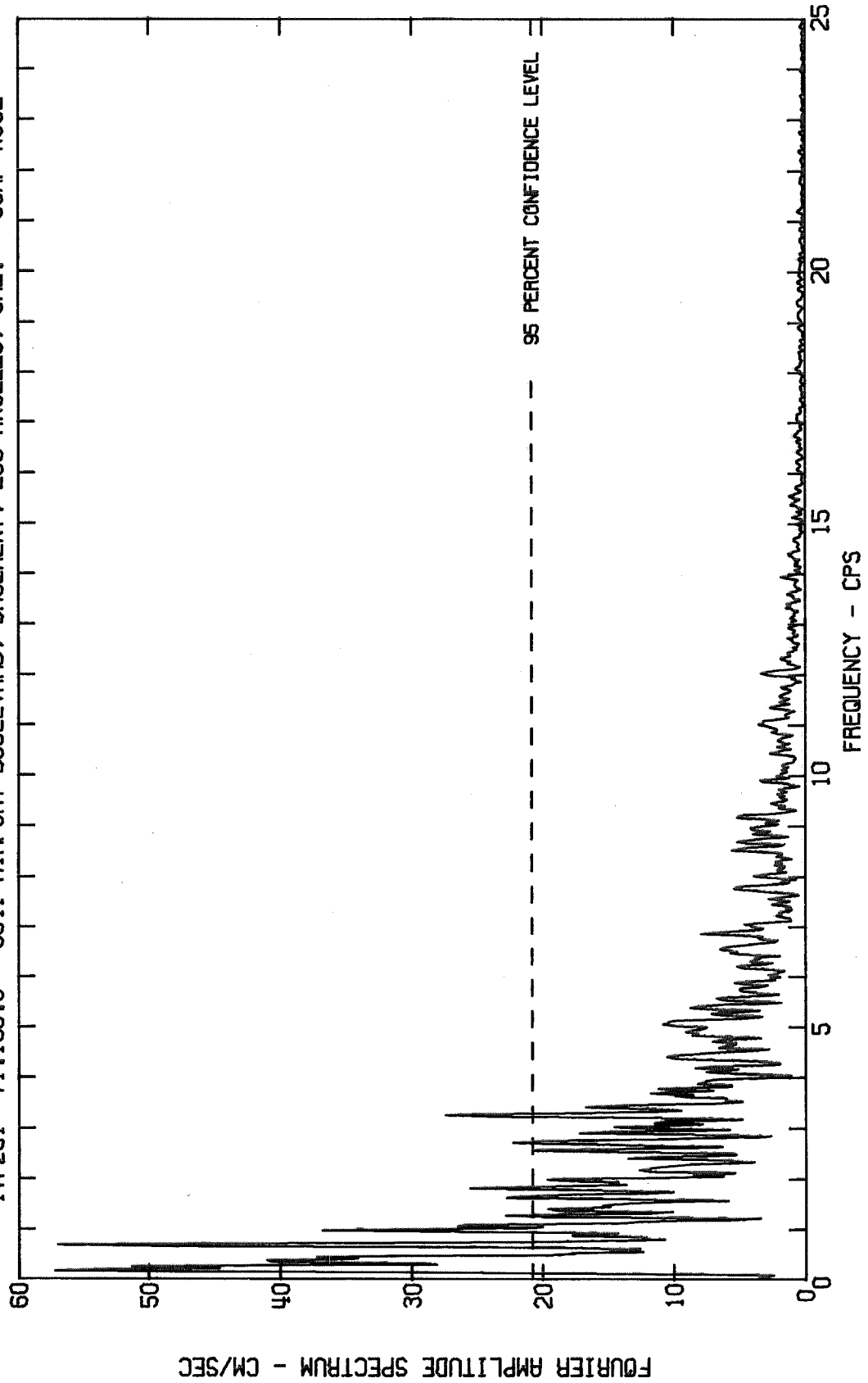
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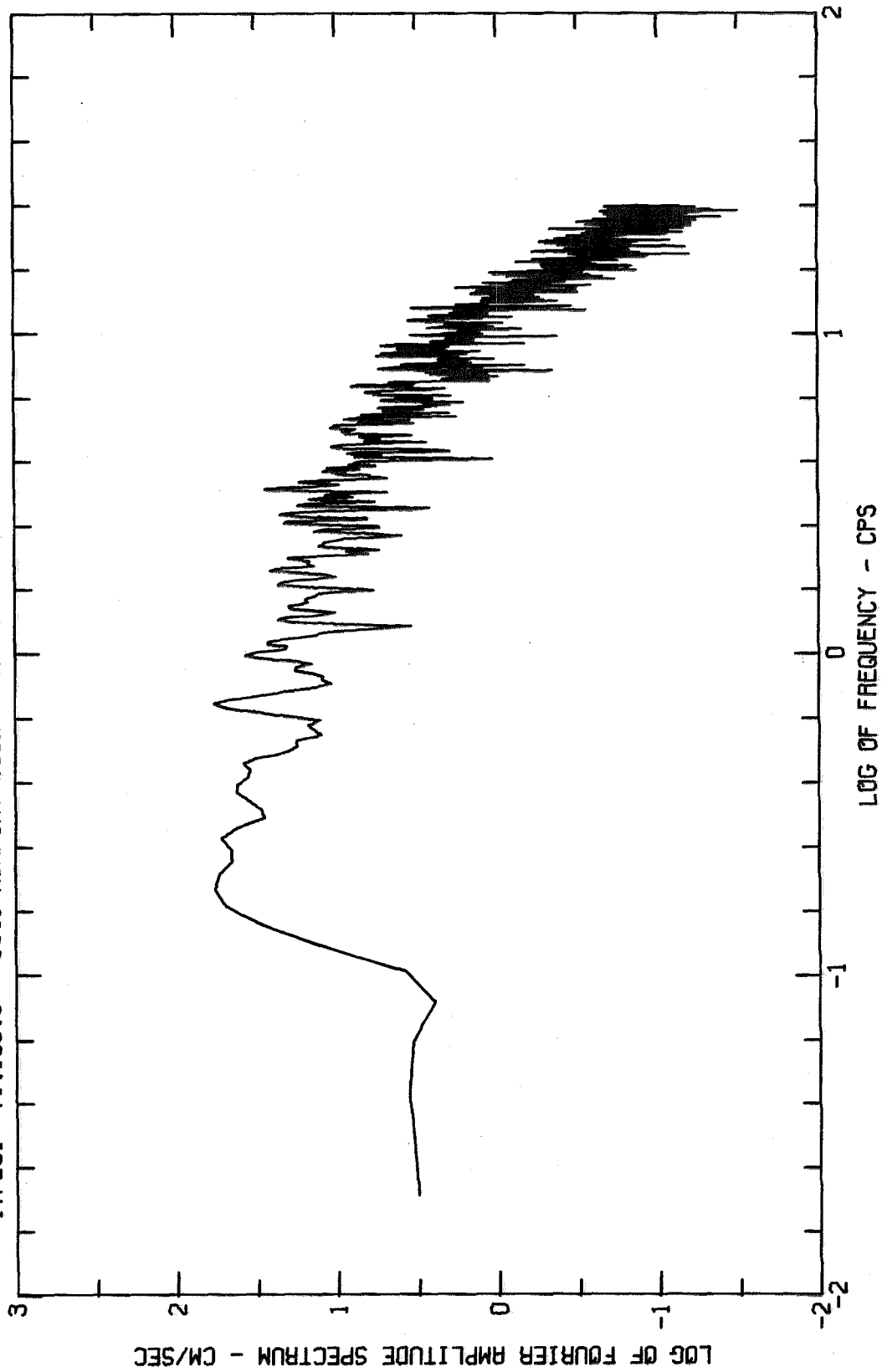
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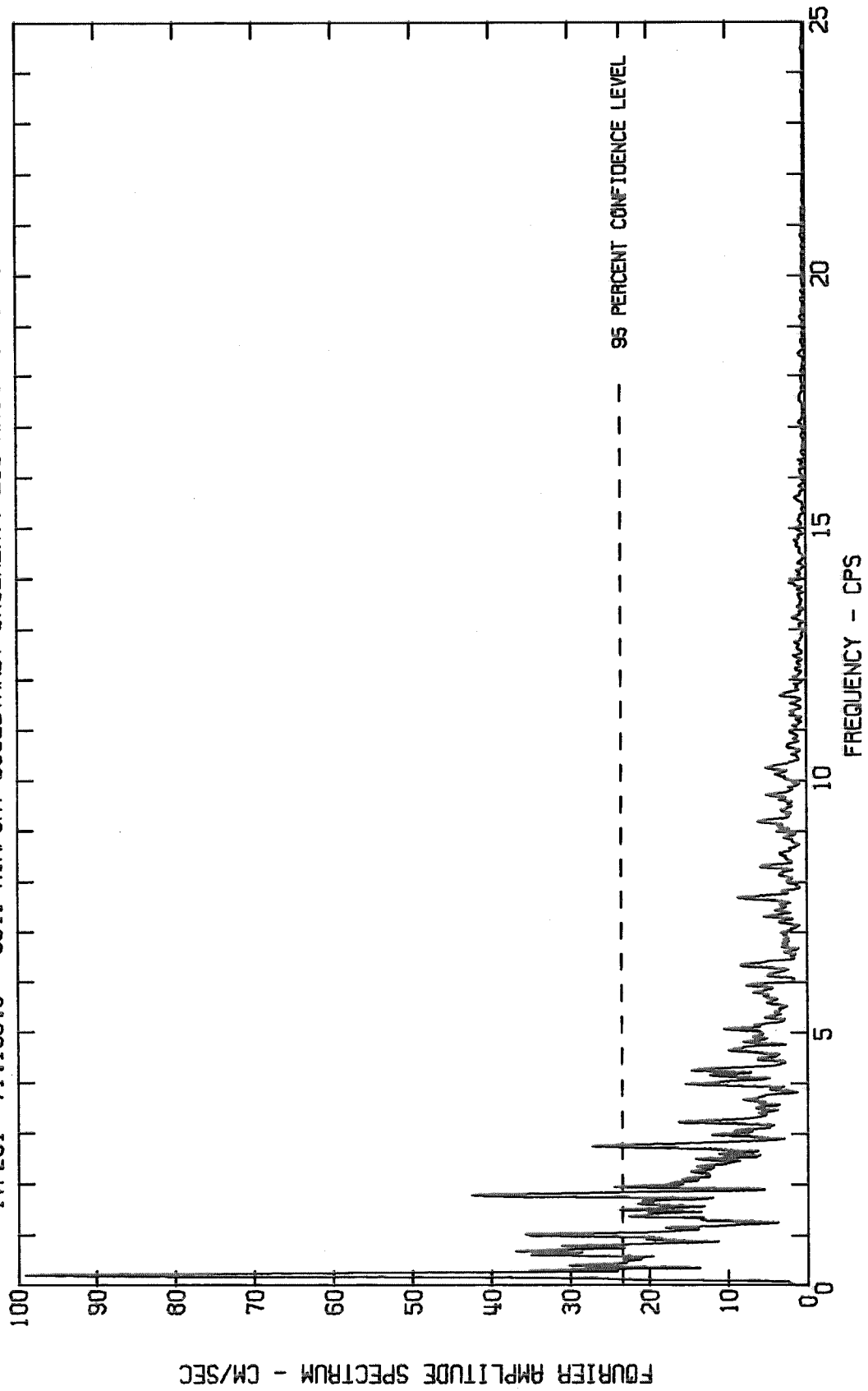
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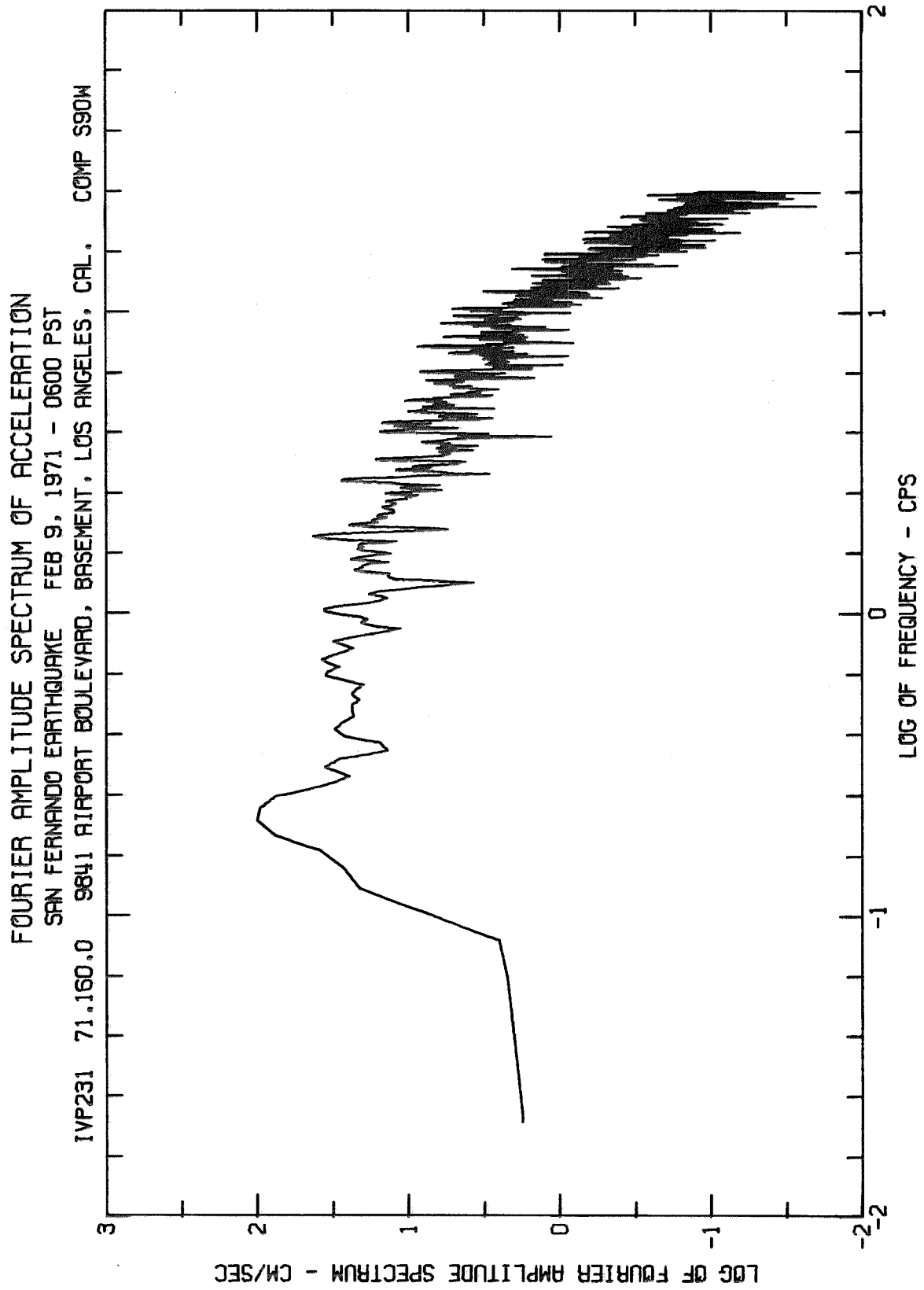


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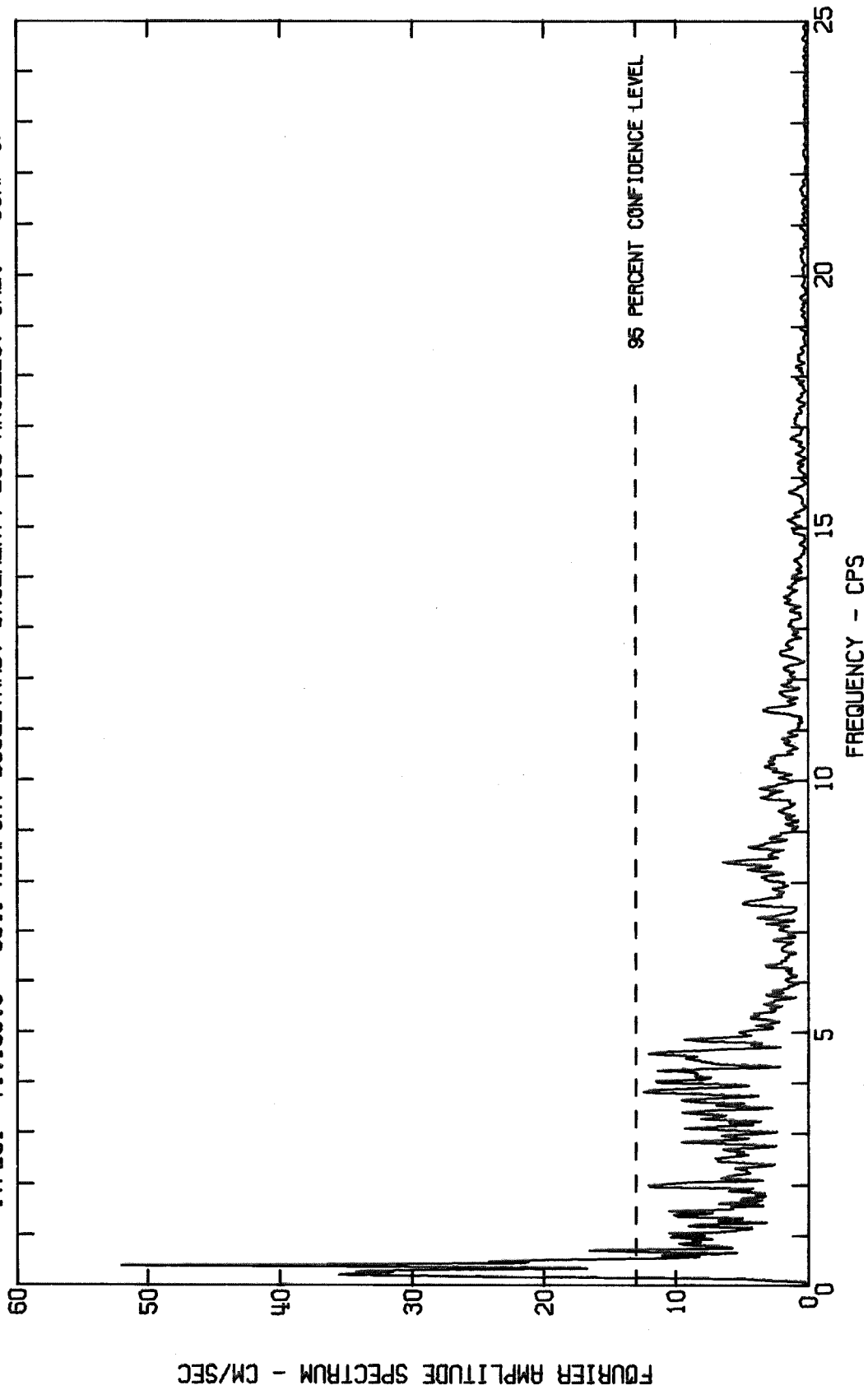




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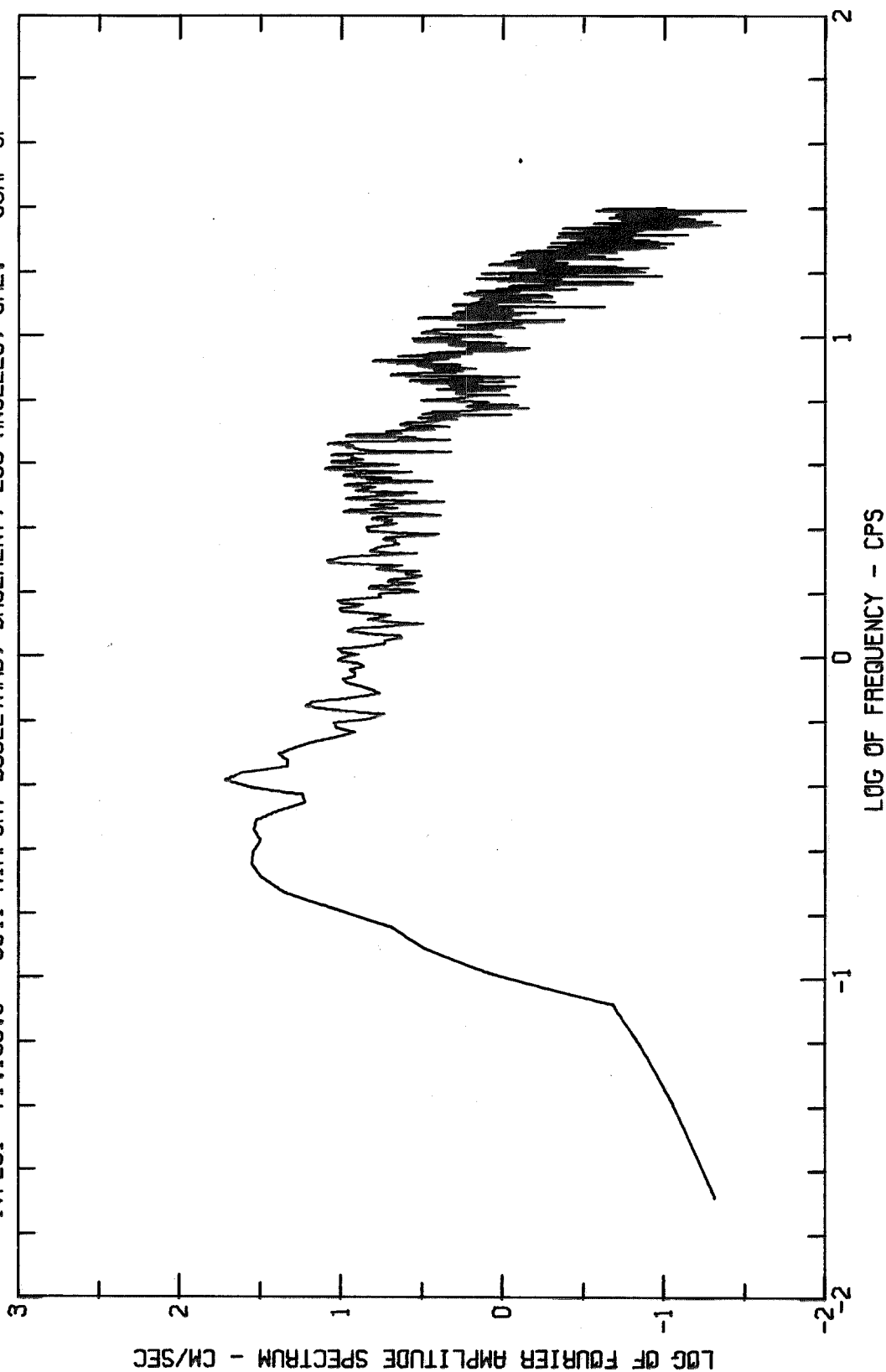
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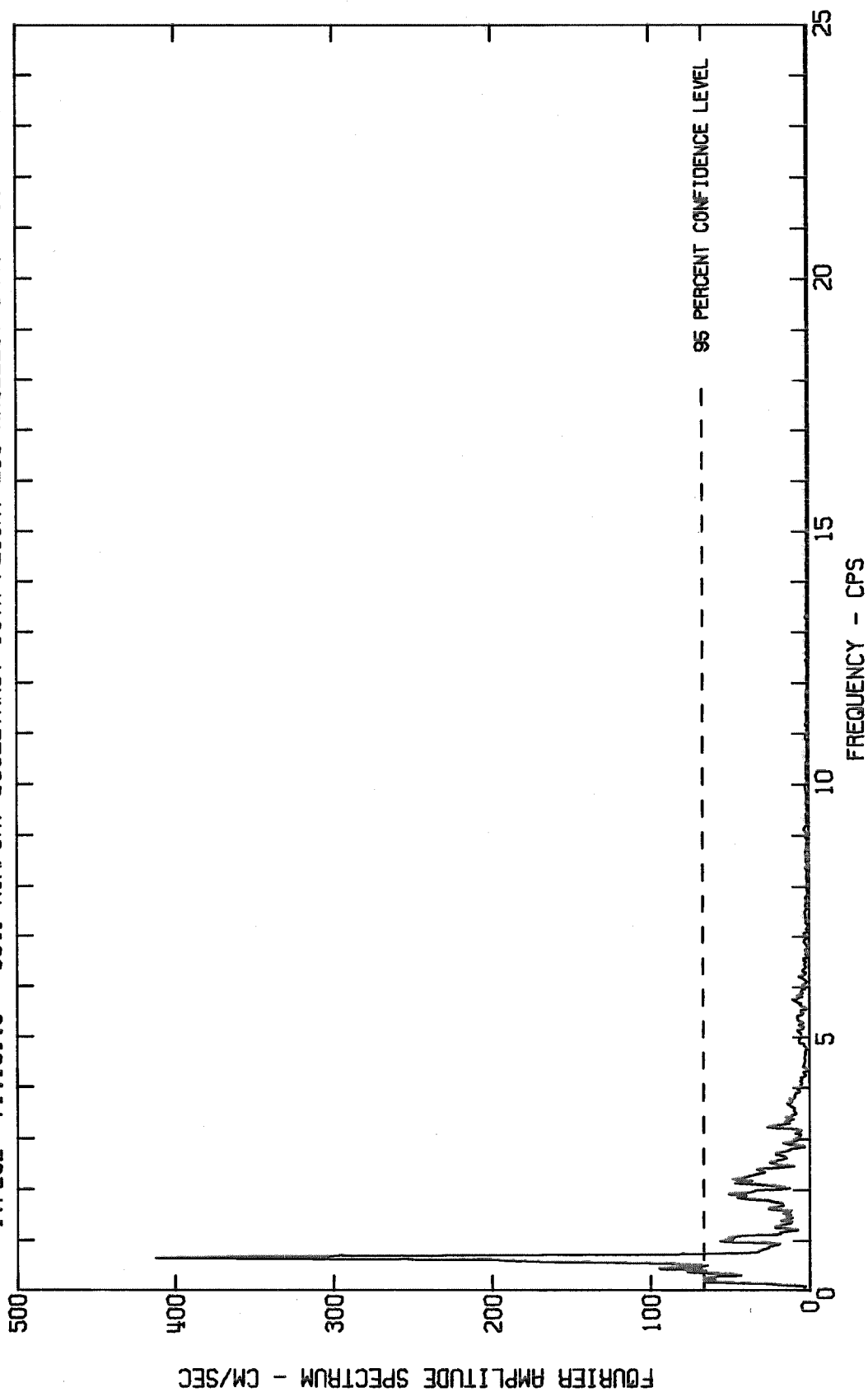
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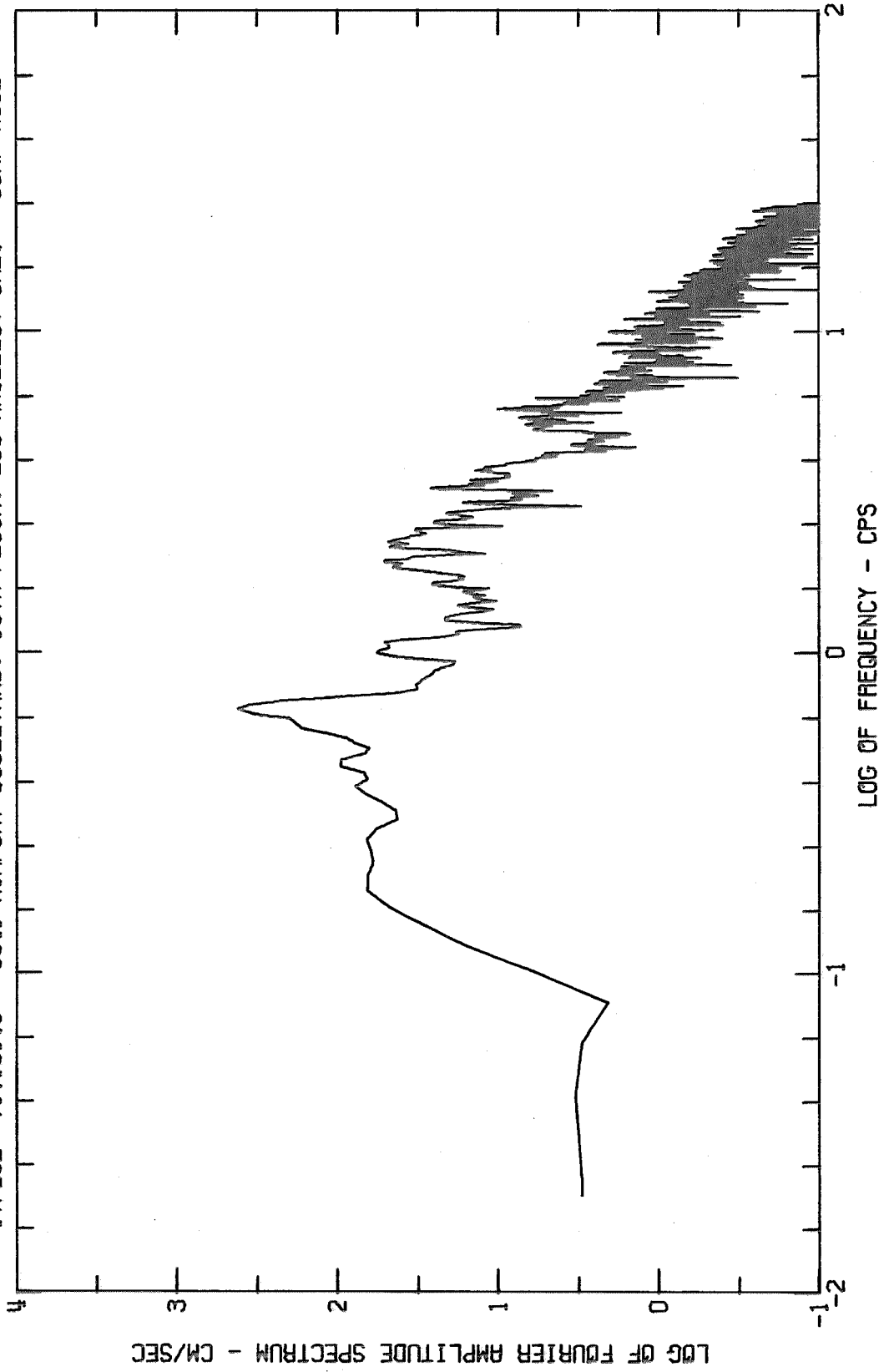
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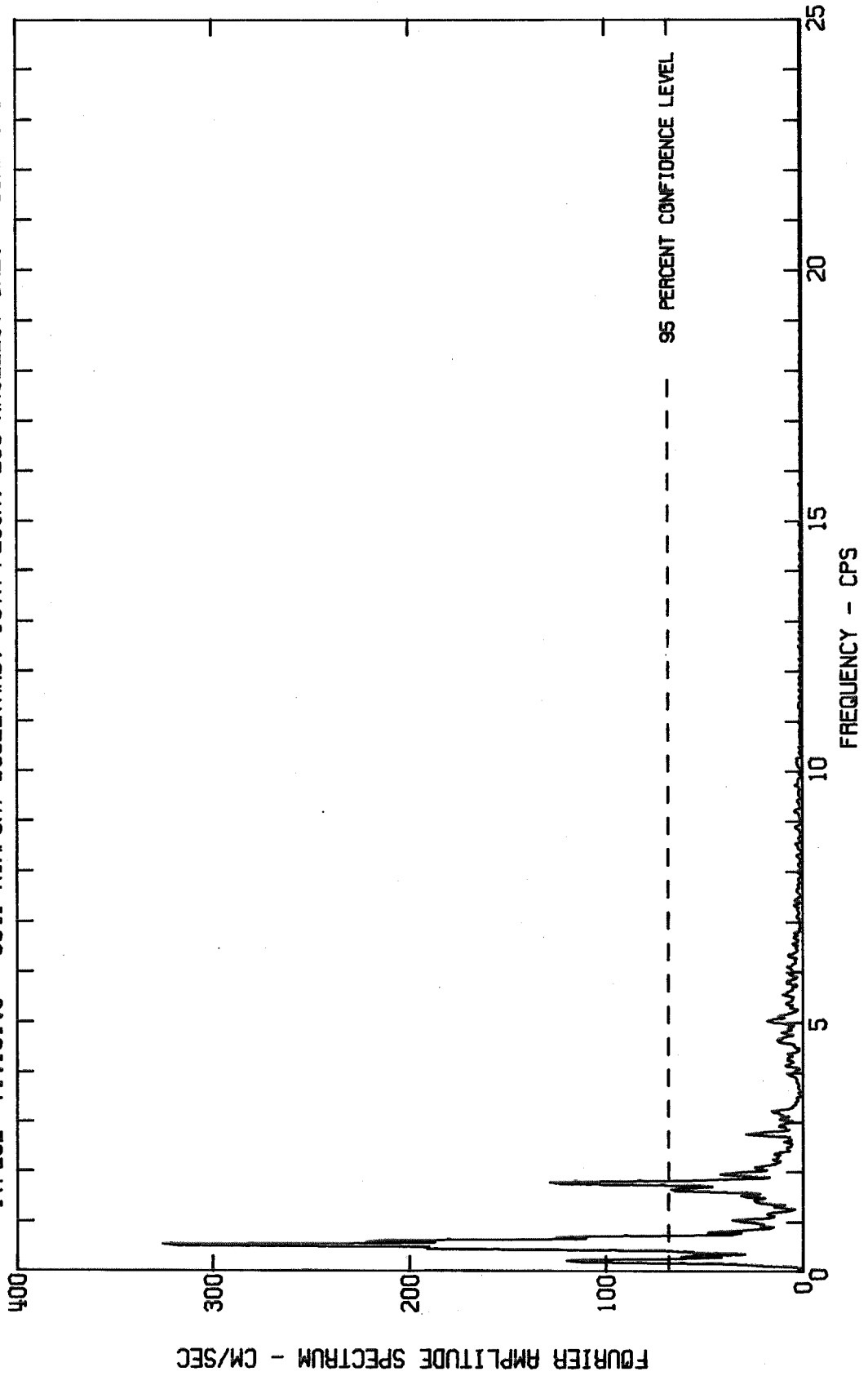
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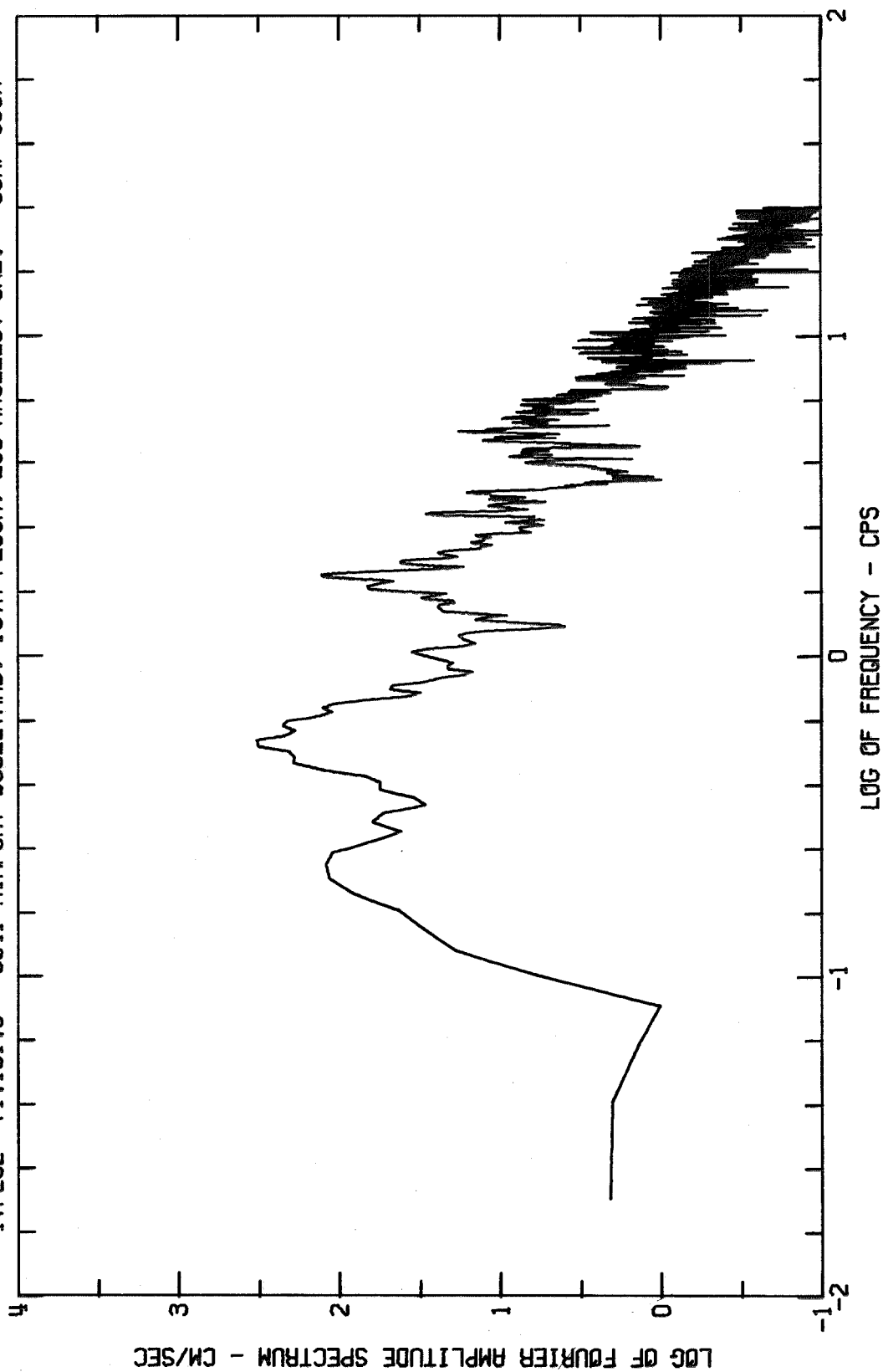
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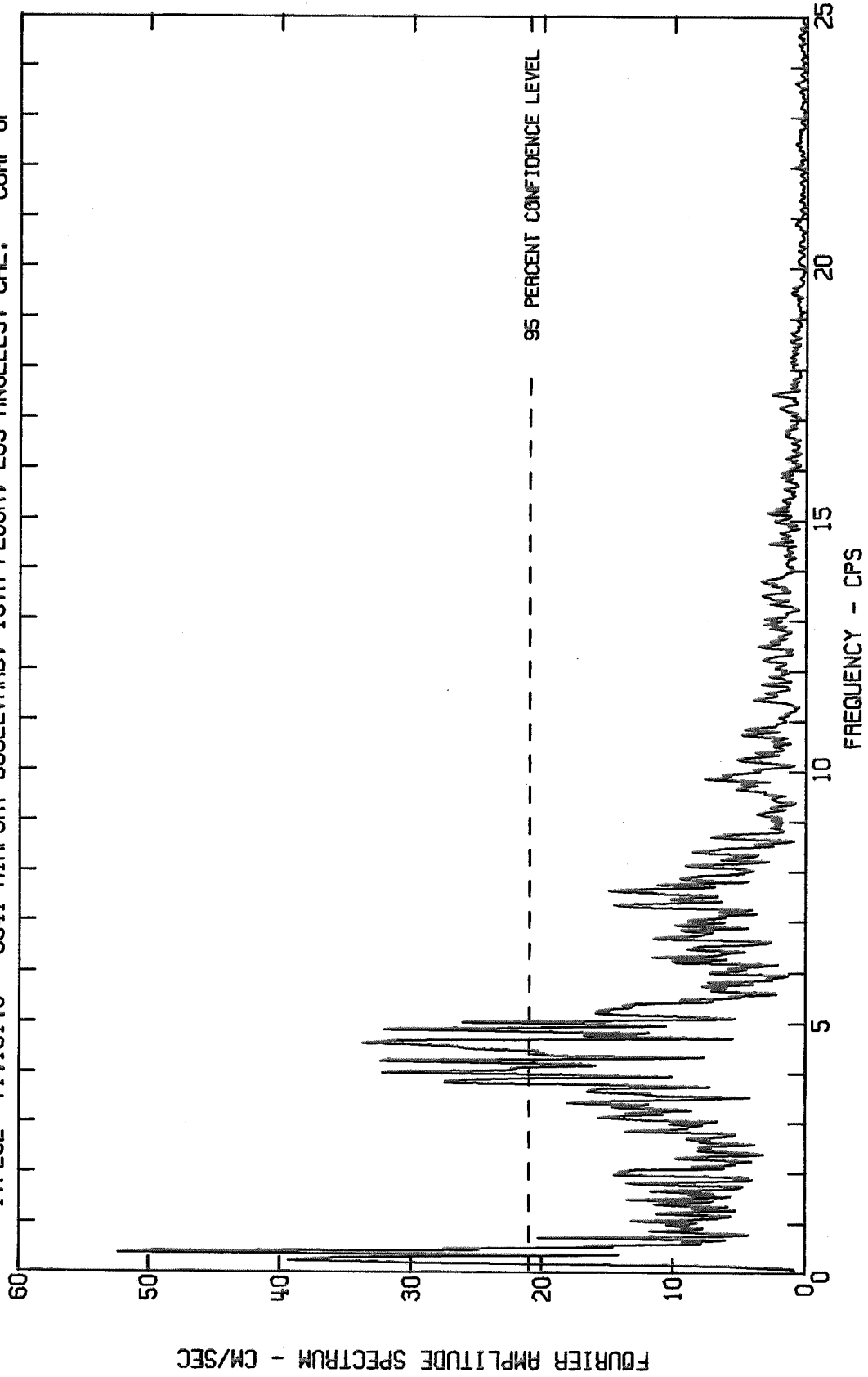
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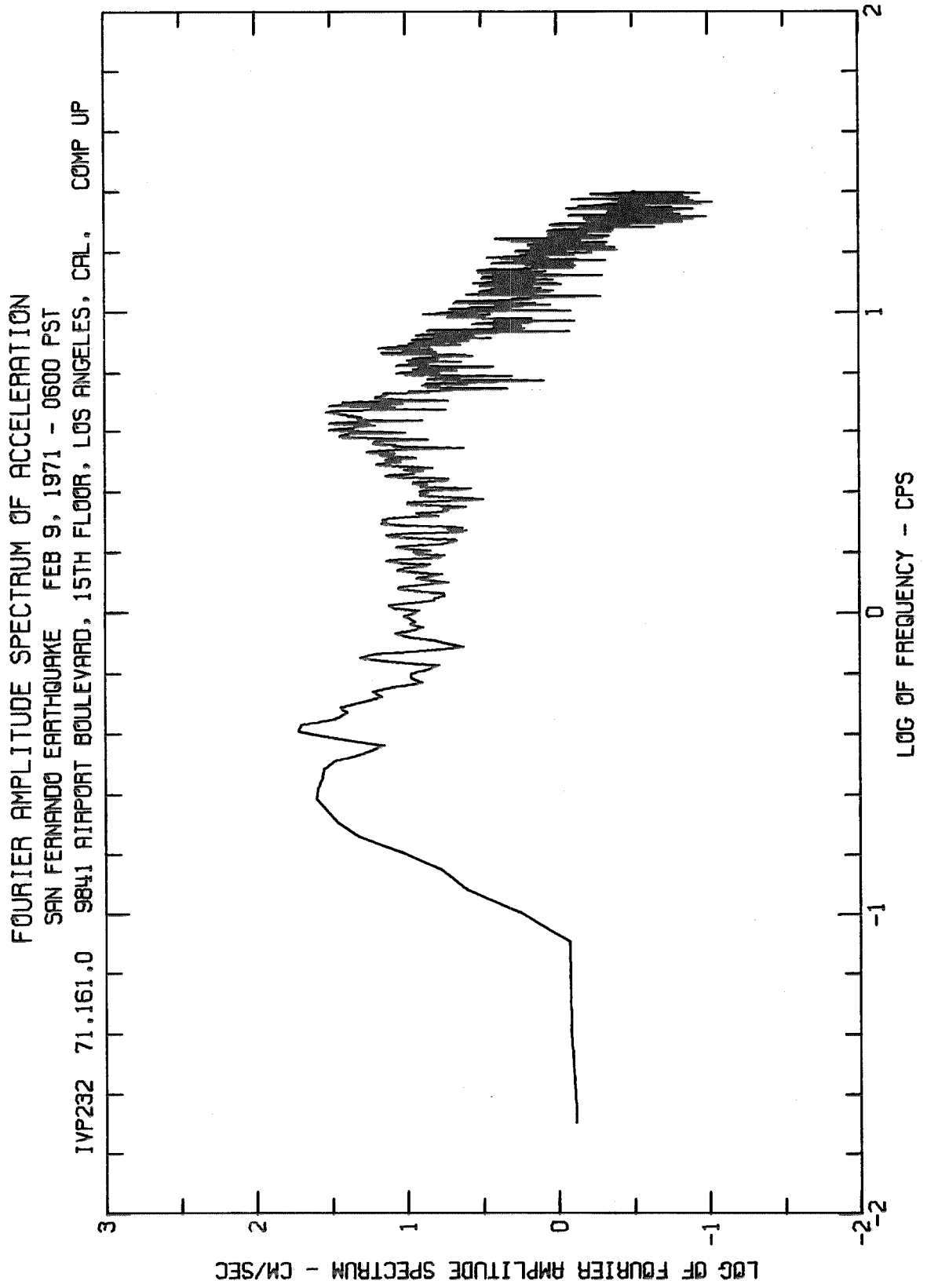


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California Institute of Technology
Earthquake Engineering Research Laboratory

The following reports of the Earthquake Engineering Research Laboratory from 1970 on can be obtained from the National Technical Information Service, Springfield, Virginia 22121:

EERL 70-20	Strong-Motion Earthquake Accelerograms - Digitized and Plotted Data (Vol. I, Part A)	PB-287 847
EERL 70-21	" " (Vol. I, Part B)	PB-196 823
EERL 71-20	" " (Vol. I, Part C)	PB-204 364
EERL 71-21	" " (Vol. I, Part D)	PB-208 529
EERL 71-22	" " (Vol. I, Part E)	PB-209 749
EERL 71-23	" " (Vol. I, Part F)	PB-210 619
EERL 72-20	" " (Vol. I, Part G)	PB-211 357
EERL 72-21	" " (Vol. I, Part H)	PB-211 781
EERL 72-22	" " (Vol. I, Part I)	PB-213 422
EERL 72-23	" " (Vol. I, Part J)	PB-213 423
EERL 72-24	" " (Vol. I, Part K)	PB-213 424
EERL 72-25	" " (Vol. I, Part L)	PB-215 639
EERL 72-26	" " (Vol. I, Part M)	PB-220 554
EERL 72-27	" " (Vol. I, Part N)	PB-223 023
EERL 73-20	" " (Vol. I, Part O)	PB-222 417
EERL 73-21	" " (Vol. I, Part P)	PB-227 481/AS
EERL 73-22	" " (Vol. I, Part Q)	PB-232 315/AS
EERL 71-50	Strong-Motion Earthquake Accelerograms - Digitized and Plotted Data: Corrected Accelerograms and Integrated Ground Velocity and Displacement Curves (Vol. II, Part A)	PB-208 283
EERL 72-50	" " (Vol. II, Part B)	PB-220 161
EERL 72-51	" " (Vol. II, Part C)	PB-220 162
EERL 72-52	" " (Vol. II, Part D)	PB-220 836
EERL 73-50	" " (Vol. II, Part E)	PB-223 024
EERL 73-51	" " (Vol. II, Part F)	PB-224 977/9AS
EERL 73-52	" " (Vol. II, Part G)	PB-229 239/AS
EERL 74-50	" " (Vol. II, Part H)	PB-231 225/AS
EERL 74-51	" " (Vol. II, Part I)	PB-232 316/AS

EERL 72-80	Analyses of Strong Motion Earthquake Accelerograms - Response Spectra	(Vol. III, Part A)	PB-212 602
EERL 73-80	" "	(Vol. III, Part B)	PB-221 256
EERL 73-81	" "	(Vol. III, Part C)	PB-223 025
EERL 73-82	" "	(Vol. III, Part D)	PB-227 469/AS
EERL 73-83	" "	(Vol. III, Part E)	PB-227 470/AS
EERL 73-84	" "	(Vol. III, Part F)	PB-227 471/AS
EERL 73-85	" "	(Vol. III, Part G)	PB-231 223/AS
EERL 74-80	" "	(Vol. III, Part H)	PB-231 319/AS
EERL 74-81	" "	(Vol. III, Part I)	PB-232 326/AS
EERL 72-100	Analyses of Strong Motion Earthquake Accelerograms - Fourier Amplitude Spectra	(Vol. IV, Part A)	PB-212 603
EERL 73-100	" "	(Vol. IV, Part B)	PB-220 837
EERL 73-101	" "	(Vol. IV, Part C)	PB-222 514
EERL 73-102	" "	(Vol. IV, Part D)	PB-223 969/AS
EERL 73-103	" "	(Vol. IV, Part E)	PB-229 240/AS
EERL 73-104	" "	(Vol. IV, Part F)	PB-229 241/AS
EERL 73-105	" "	(Vol. IV, Part G)	PB-231 224/AS
EERL 74-100	" "	(Vol. IV, Part H)	PB-232 327/AS
EERL 74-101	" "	(Vol. IV, Part I)	PB-232 328/AS
Joint Report:	Strong-Motion Instrumental Data on the San Fernando Earthquake of February 9, 1971		PB-204 198
EERL 71-01	P. C. Jennings, et al, Forced Vibration of a 22-Story Steel Frame Building		PB-205 161
EERL 71-02	P. C. Jennings, ed., Engineering Features of the San Fernando Earthquake		PB-202 550
EERL 71-03	Randolph A. Adu, Response and Failure of Structures under Stationary Random Excitation		PB-205 304
EERL 71-04	Jacobo Bielak, Earthquake Response of Building-Foundation Systems		PB-205 305

EERL 71-05	M. D. Trifunac, F. E. Udwadia, A. G. Brady, High Frequency Errors and Instrument Corrections of Strong-Motion Accelerograms	PB-205 369
EERL 71-06	Knut Sverre Skattum, Dynamic Analysis of Coupled Shear Walls and Sandwich Beams	PB-205 267
EERL 71-07	John Brent Hoerner, Modal Coupling and Earthquake Response of Tall Buildings	PB-207 635
EERL 72-01	P. C. Jennings and J. Bielak, Dynamics of Building-Soil Interaction	PB-209 666
EERL 72-02	F. E. Udwadia, Investigation of Earthquake and Microtremor Ground Motions	PB-212 853
DRC 72-01	Albert W. Whitney, On Insurance Settlements Incident to the 1906 San Francisco Fire	PB-213 256
EERL 72-04	J. H. Wood, Analysis of the Earthquake Response of a Nine-Story Steel Frame Building during the San Fernando Earthquake	PB-215 823
EERL 73-01	F. E. Udwadia and M. D. Trifunac, The Fourier Transform, Response Spectra and their Relationship through the Statistics of Oscillator Response	PB-220 458
EERL 73-02	Research Papers Submitted to the Fifth World Conference on Earthquake Engineering, Rome, Italy, 25-29 June 1973	PB-220 431
DRC 73-02	Earthquakes and Insurance, Published Papers on Earthquake Research Affiliates Conference of 2-3 April 1973	PB-223 033
EERL 73-03	M. D. Trifunac and V. Lee, Routine Computer Processing of Strong-Motion Accelerograms	PB-226 047-AS